FUJITSU

Advanced Video Movement

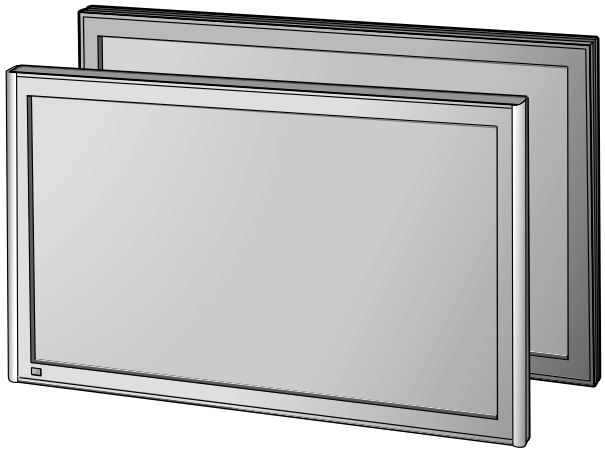
English

USER'S MANUAL

50" WIDE PLASMA DISPLAY

PDS5001W/PDS5001U/
PDS5002W/PDS5002U

Plasmavision™



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Before using the display, read this manual carefully so that you know how to use the display correctly.
Refer to this manual whenever questions or problems about operation arise. Be sure to read and observe the safety precautions.
Keep this manual where the user can see it easily.
** Installation and removal require special expertise. Consult your product dealer for details.*

FUJITSU GENERAL LIMITED

FUJITSU

DECLARATION OF CONFORMITY

according to EN45014

We

Fujitsu General (U.K.) Co. Limited

of

Unit 150, Centennial Park, Centennial Avenue Elstree, Hertfordshire, WD6 3SG

Manufacturer: Shinjyo Fujitsu General Limited
702-3 Kanazawa Shinjyo-shi
Yamagata Japan

declares under our sole responsibility that the product,

Type: 50” PLASMA DISPLAY
Model Name: PDS5001W

to which this declaration relates are in conformity with the following standards;

European Standards:

EMC:
a. EN55022 1994/A1:1995/A2:1997/A3:1998 Class A
b. EN61000-3-2 1995
c. EN61000-3-3 1995
d. EN55024 1998
(EN61000-4-2 1995 / EN61000-4-3 1996)
(EN61000-4-4 1995 / EN61000-4-5 1995 / EN61000-4-6 1996)
(EN61000-4-8 1993 / EN61000-4-11 1994)

Safety:
e. EN60065

By conformance with the standard referenced, the product follows the provisions of the directives listed below.

a. EC Council Directive 89/336/EEC of 3rd, May 1989
b. EC Council Directive 92/31/EEC of 28th, April 1992
c. EC Council Directive 93/68/EEC of 22nd, July 1993
d. EC Council Directive 73/23/EEC of 19th, February 1973

Place of Issue: United Kingdom
Date of Issue: Oct. 2001

Signature:

H. Hirosaki, Chief Exective Officer
Fujitsu General (U.K) Co. Limited

Declaration reference: Fujitsu General (U.K) Co. Limited
Unit 150, Centennial Park, Centennial Avenue Elstree,
Hertfordshire, WD6 3SG, United Kingdom
Tel: + 44-(0)20-8731-3450 Fax:+ 44-(0)20-8731-3451

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b. EN61000-3-2 1995
c. EN61000-3-3 1995
d. EN55024 1998
(EN61000-4-2 1995 / EN61000-4-3 1996)
(EN61000-4-4 1995 / EN61000-4-5 1995 / EN61000-4-6 1996)
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Tel: + 44-(0)20-8731-3450 Fax:+ 44-(0)20-8731-3451

SAFETY PRECAUTIONS

FCC NOTICE

• PDS5001W/PDS5001U: A Class A digital device

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

• PDS5002W/PDS5002U: A Class B digital device

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

– Reorient or relocate the receiving antenna.
– Increase the separation between the equipment and receiver.
– Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
– Consult the dealer or an experienced radio/TV technician for help.

IMPORTANT INFORMATION

WARNING: This is a Class A and Class B product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

WARNING: TO REDUCE THE RISK OF FIRE AND ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

IMPORTANT

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

CAUTION:
TO PREVENT THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

IMPORTANT SAFEGUARDS

Electrical energy can perform many useful functions. This unit has been engineered and manufactured to assure your personal safety. But **IMPROPER USE CAN RESULT IN POTENTIAL ELECTRICAL SHOCK OR FIRE HAZARD**. In order not to defeat the safeguards incorporated into this product, observe the following basic rules for its installation, use and service. Please read these "Important Safeguards" carefully before use.

– All the safety and operating instructions should be read before the product is operated.
– The safety and operating instructions should be retained for future reference.
– All warnings on the product and in the operating instructions should be adhered to.
– All operating instructions should be followed.
– Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
– Do not use attachments not recommended by the product manufacturer as they may cause hazards.
– Do not use this product near water. Do not use immediately after moving from a low temperature to high temperature, as this causes condensation, which may result in fire, electric shock, or other hazards.
– The apparatus shall not be exposed to dripping or splashing.
– No objects filled with liquids, such as vases, shall be placed on the apparatus.

– Do not place this product on an unstable cart, stand, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. The product should be mounted according to the manufacturer's instructions, and should use a mount recommended by the manufacturer.

– When the product is used on a cart, care should be taken to avoid quick stops, excessive force, and uneven surfaces which may cause the product and cart to overturn, damaging equipment or causing possible injury to the operator.

– Slots and openings in the cabinet are provided for ventilation. These ensure reliable operation of the product and protect it from overheating. These openings must not be blocked or covered. (The openings should never be blocked by placing the product on bed, sofa, rug, or other similar surface. It should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided and the manufacturer's instructions have been adhered to.)

  For proper ventilation, separate the product from other equipment, which may prevent ventilation, and keep distance more than 10 cm.

– This product should be operated only from the type of power source indicated on the label. If you are not sure of the type of power supply of your home, consult your product dealer or local power company.

– This product is equipped with a three-wire plug. This plug will fit only into a grounded power outlet. If you are unable to insert the plug into the outlet, contact your electrician to install the proper outlet. Do not defeat the safety purpose of the grounded plug.

– Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them. Pay particular attention to cords at doors, plugs, receptacles, and the point where they exit from the product.

– For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the cable system. This will prevent damage to the product due to lightning and power line surges.

– Do not overload wall outlets, extension cords, or convenience receptacles on other equipment as this can result in a risk of fire or electric shock.

– Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

– Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltages and other hazards. Refer all service to qualified service personnel.

– Unplug this product from the wall outlet and refer service to qualified service personnel under the following conditions:

  a) When the power supply cord or plug is damaged.

  b) If liquid has been spilled, or objects have fallen on the product.

  c) If the product has been exposed to rain or water.

  d) If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the Operation Manual, as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.

  e) If the product has been dropped or damaged in any way.

  f) When the product exhibits a distinct change in performance—this indicates a need for service.

– When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or with same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

– Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

– The product should be placed more than one foot away from heat sources such as radiators, heat registers, stoves, and other products (including amplifiers) that produce heat.

– When connecting other products such as VCR's, and personal computers, you should turn off the power of this product for protection against electric shock.

– Do not place combustibles behind the cooling fan. For example, cloth, paper, matches, aerosol cans or gas lighters that present special hazards when overheated.

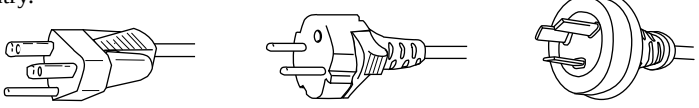
– Use only the accessory cord designed for this product to prevent shock.

  The power supply voltage rating of this product is AC200–240 V(W type) and AC100–120 V(U type), and the power cord attached conforms to the following power supply voltage. Use only the power cord designated by our dealer to ensure Safety and EMC.

  When it is used with other power supply voltage, the power cable must be changed.

  Use the standard power plug and cord set of the specified country.

  Consult your product dealer.



FEATURES

This display uses a plasma display panel and is only 9.8 cm deep. With its high picture quality and performance, it is perfectly suited for multimedia applications.

Variety of input signals

- In addition to video, S-video, and RGB, signals, this display supports input of high-quality video signals such as DVD and HDTV.
- The display has an RGB input terminal to receive digital RGB signal of DVI standard to display a high definition picture quality in addition to mD-sub terminal and BNC terminal.
- Depending on the model, the display supports video input for different color television systems as follows: NTSC, PAL, SECAM, PAL60, N-PAL, M-PAL, 4.43NTSC.
- The display has a component video input terminal to receive signals from the DVD player and HDTV equipment as well as digital broadcasting signals (color difference signals).
- The display has an RGB input terminal to receive signals, including VGA, SVGA, XGA,SXGA and UXGA[*1].

5 screen sizes (Video input mode) and 3 screen sizes (RGB input mode)

- This display offers a total of five different screen sizes in video input mode: Normal, Wide1, Wide2, Zoom1, and Zoom2.

  A Normal mode is also available for displaying of normal-size (4:3 aspect ratio) pictures.
- The display has an Auto mode to switch screen size automatically depending on the contents of software.
- Three different screen sizes in RGB input mode (Normal, Wide, and Zoom) are also available.

Vertical installation

- The display can be installed vertically, enabling advertisement to be displayed. In this case, you can set up the display so that on-screen information, such as input modes and menus, is displayed properly.

Power management function

- The display features a DPMS (Display Power Management Signaling) function that ensures automatic power saving capability.

Flexible as part of a system

- You can operate the display by remote control using the RS-232C interface.
- If you have two or more displays, you can assign a unique number to each of them so that you can select which one you want to use.
- Input Priority function for selecting automatic switching to desired mode is provided to avoid troublesome operation.
- Main unit key lock function can prevent mischief and malfunction.

Others

- Troublesome adjustment of clock phase can be avoided by automatic clock phase adjustment function (Automatic Clock Phase function).
- You can specify the color temperature.
- The white screen and screen orbiter functions are available to minimize phosphor burn-in.
- A clear picture can be obtained by digital noise reduction function.
- A display suitable for such film materials as movie pictures can be made by 24 frame mode function.

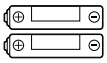
*1 The refresh rate of 60, 72, 75 and 85 Hz for SVGA (800 x 600) and those of 60, 70, 75 Hz for XGA (1024 x 768) and those of 60, 75 Hz for SXGA (1280 x 1024) and those of 60 Hz for UXGA (1600 x 1200) are supported.
Note that the SXGA and UXGA pictures will be compressed when displayed on the screen.

ACCESSORIES

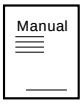
CHECKING ACCESSORIES

One remote control

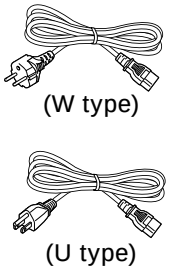
Two AA batteries



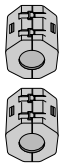
One user's manual



One power cable



Two ferrite cores



HANDY TIPS

- Pictures may become "burnt" into the screen phosphors if the screen is left on for extended periods. To ensure that the display has a prolonged service life, be sure to use a screen orbiter, white screen. This will ensure the same picture or pattern is not constantly displayed for long periods. (See P. E-33–E-34.)
- The plasma display panel, which is built for maximum precision, provides more than 99.99% effective pixels. You may find, however, that some pixels constantly remain lit or dimmed.
- The display has a fan to prevent its internal temperature from rising.
- Be careful with the air delivered by the fan. It may be very hot.
- Contact your dealer if you find that the display does not seem to function properly when used with other audio-visual equipment.

  You may need to move your display if it produces degraded pictures or noise due to electromagnetic radiation, or if the infrared remote control does not function properly.
- Pictures may not be displayed properly if you connect a non-standard PC to the RGB input terminal. In this case, contact your dealer for more information.
- The protective circuit, built into the display, automatically turns off the power if the display has a problem. In this case, you will see that the power indicator lamp flashes red.

Warning

If the power indicator lamp flashes red, this signifies that the display has developed a problem. When this happens, be sure to remove the power plug from the receptacle to prevent fire or electric shock. Then, check the display in accordance with the instructions given on P. E-40, or contact your dealer.

- Viewing the screen constantly for extended periods can strain your eyes. Be sure to stay at a proper distance (at least 1.9 m or 6.3 feet) from the screen and to look occasionally away while working.
- Have the display inspected and cleaned by your dealer at regular intervals.

Information

Cables for connecting the display to external equipment are not supplied. Contact your dealer for more information on these products.

INSTALLATION

To prevent the display's internal components from overheating, make sure that the display is installed in a well-ventilated location.

Be sure to use the optional stand and the other unit when installing the display, furthermore wall-mounting unit is recommended to use for installing on the wall . Also, be also sure that your dealer performs the installation.

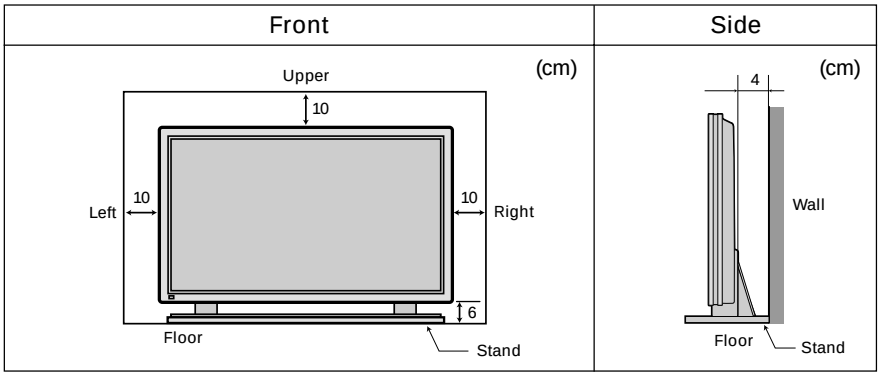
See the appropriate instruction manual for more information on the installation hardware you select.

To prevent an accident and ensure safety in the event of an earthquake, fix the display securely into position as described below.

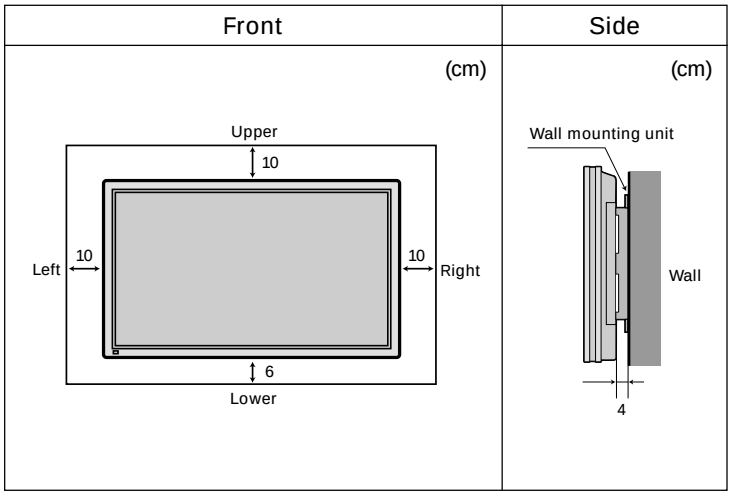
To ensure proper heat radiation, provide at least as much space around the display as shown below.

* Make sure that the display is installed in a location where the temperature can be maintained between 0°C and 40°C.
* Never attempt to tilt the display sideways or backward.
* To prevent the power and other cables from being accidentally pulled, make sure that they run along the wall or through corners.
* The display can be installed with either of its sides facing down.

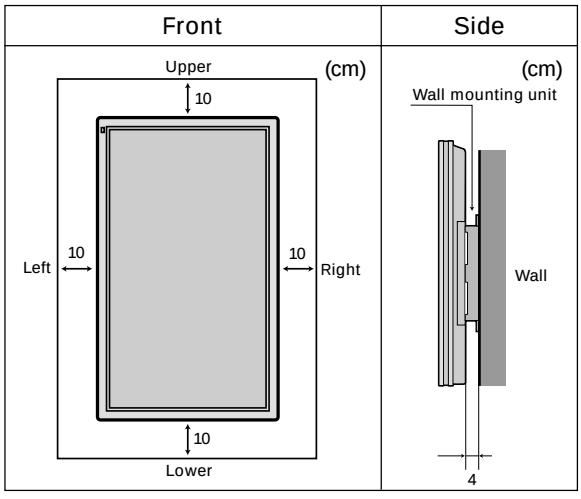
When using the stand



When using the wall-mounting unit (horizontal type)



When using the wall-mounting unit (vertical type)



* When installing the display vertically, setup vertical installation. (Refer to Installation. See P. E-35)

Note

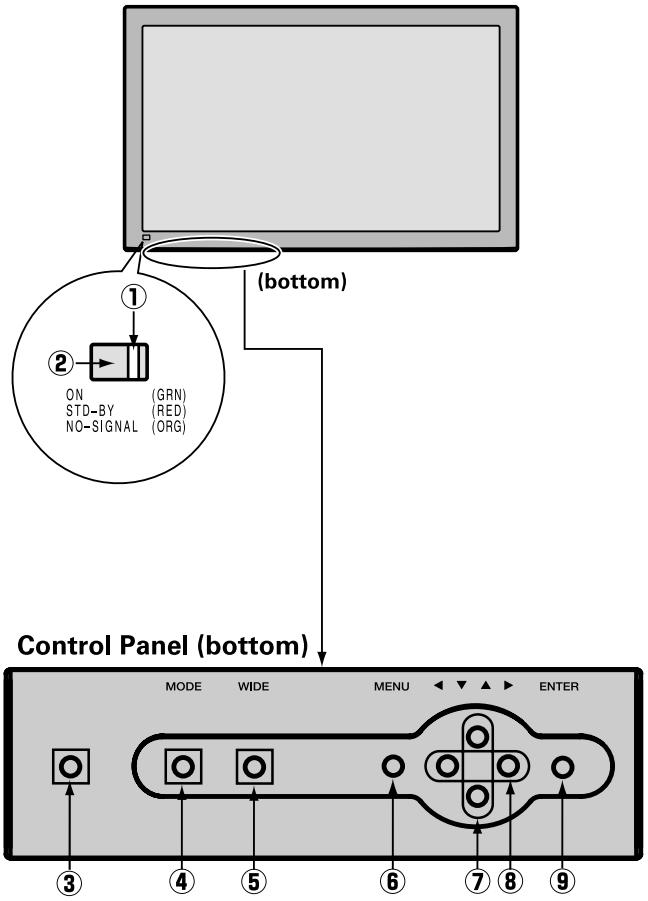
The display is a highly precise piece of equipment and therefore must be packed properly before transportation. Be sure to use only those packing materials originally supplied with the display when repacking it.

Reference

See P. E-37 for more information on options.

PART NAMES AND FUNCTIONS

Front



① **Power indicator lamp**

This lamp shows the state of the power supply.

Lit (red):	Power OFF (stand-by)
Lit (green):	Power ON
Lit (orange):	Power saving (DPMS: Power saving function) mode ON
Flashing (red):	Malfunction (Flashes differently depending on the type of malfunction. See P. E-40 for more information.)

② **Remote control signal receiver**

Receives signals from the remote control.

③ **Power button**

Turns the power ON or OFF (stand-by).

④ **Input mode selector button [MODE]**

Switches between picture input modes.

⑤ **Wide screen selector button [WIDE]**

Switches the screen over to a desired wide screen.

⑥ **Menu button [MENU]**

Displays picture adjustment menus.

⑦ **Adjustment buttons [▼ / ▲]**

The [▼ / ▲] buttons can also be used to scroll through the options when a menu is displayed.

⑧ **Adjustment buttons [◀ / ▶]**

The [◀ / ▶] buttons can also be used to scroll through options in a menu, or to change values.

⑨ **Enter button [ENTER]**

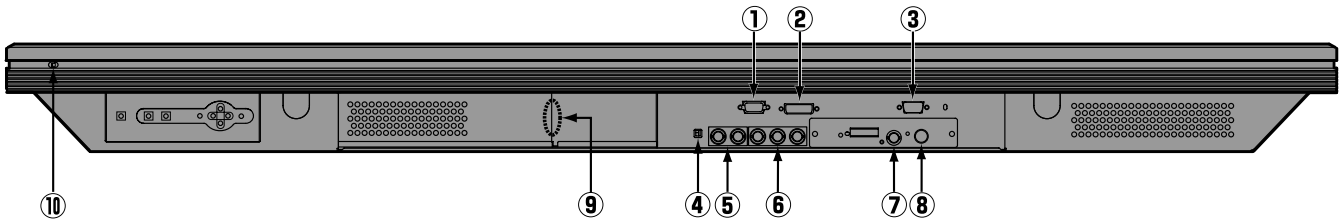
Press this button to finalize the selection of a desired option in a menu.

Warning

If the power indicator lamp flashes red, this signifies that the display has developed a problem. When this happens, be sure to remove the power plug from the receptacle and contact your dealer. Leaving the display power ON can result in fire or electric shock.

PART NAMES AND FUNCTIONS (Continued)

Bottom



① **RGB 2 input terminal (RGB 2 INPUT/mD-sub)**

Connect this terminal to the PC's display (analog RGB) output terminal or decoder (digital broadcast tuner, etc.) output terminal.

② **RGB 1 input terminal (RGB 1 INPUT/DVI-D)**

Connect this terminal to the PC's display (digital RGB) output terminal or decoder (digital broadcast tuner, etc.) output terminal.

*The connection cable No.88741-8000 made by **molex Inc.** is recommanded.

③ **RS-232C terminal (RS-232C)**

This terminal is provided for you to control the display from the PC. Connect it to the RS-232C terminal on the PC.

When connecting a cable, attach a ferrite core to the cable. (See P. E-12.)

④ **RGB 3 synchronization switch (SYNC SW TTL/ANALOG (75 Ω))**

This switch is used to terminate horizontal (H) terminal and vertical (V) terminal, out of RGB3 input terminals, with 75 Ω .

TTL : Used when sending RGB signals from the PC to the RGB 3 terminal

ANALOG (75 Ω): Used when sending analog synchronization signals to the RGB 3 terminal

⑤+⑥ **RGB 3 input terminal (RGB 3 INPUT/BNC)**

Connect this terminal to the PC's display (analog RGB)output terminal or decoder (digital broadcast tuner,etc.) output terminal.

*When RGB3 input terminal is connected, Comp.video mode is not available.

⑥ **Component video input terminal (COMPONENT VIDEO INPUT)**

Connect this terminal to the component video output (color difference output) terminal of your HDTV unit or DVD player.

*When Comp.video input terminal is connected, RGB3 mode is not available.

⑦ **Video input terminal (VIDEO INPUT)**

Connect this terminal to the video output terminal of your VCR or video disk player.

⑧ **S-video input terminal (S-VIDEO INPUT)**

Connect this terminal to the S-video output terminal of your VCR or video disk player.

⑨ **Power input terminal**

Connect this terminal to the power cable supplied with the display.

When connecting a cable,attach a ferrite core to the cable. (See P. E-12)

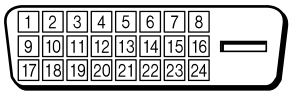
⑩ **OFF/STD-BY ⏻ switch**

OFF :The power indicator lamp goes off, and the power can't be turned on by the power button. The power is partly supplied.

STD-BY ⏻:The power indicator lamp lights red, and the power can be turned on or off by the power button.

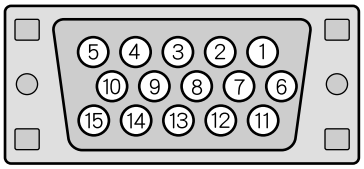
Description of Input Terminals

DVI-D terminal (RGB 1 INPUT/DVI-D)



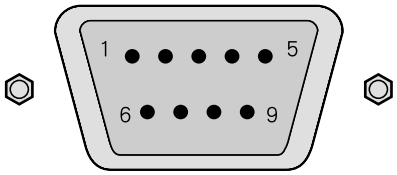
Pin No.	Signal	Pin No.	Signal	Pin No.	Signal
1	T.M.D.S. Data2−	9	T.M.D.S. Data1−	17	T.M.D.S. Data0−
2	T.M.D.S. Data2+	10	T.M.D.S. Data1+	18	T.M.D.S. Data0+
3	T.M.D.S. Data2 Shield	11	T.M.D.S. Data1 Shield	19	T.M.D.S. Data0 Shield
4	—	12	—	20	—
5	—	13	—	21	—
6	DDC Clock	14	+5V Power	22	T.M.D.S. Clock Shield
7	DDC Data	15	Ground(for +5V)	23	T.M.D.S. Clock+
8	—	16	Hot Plug Detect	24	T.M.D.S. Clock−

mD-sub terminal (RGB2 INPUT/mD-sub)



Pin No.	Input signal	Pin No.	Input signal
1	Red	9	—
2	Green	10	Ground
3	Blue	11	—
4	—	12	—
5	Ground	13	Horizontal synchronization
6	Ground	14	Vertical synchronization
7	Ground	15	—
8	Ground	Frame	Ground

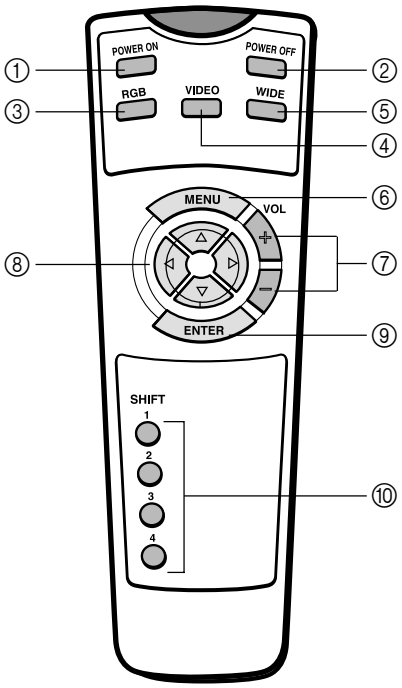
RS-232C terminal (RS-232C)



Pin No.	Signal
1	DCD (Data Carrier Detect)
2	RD (Received Data)
3	TD (Transmit Data)
4	DTR (Data Terminal ready)
5	GND (Ground)
6	DSR (Data Set Ready)
7	RTS (Request To send)
8	CTS (Clear To Send)
9	RI (Ring Indication)

PART NAMES AND FUNCTIONS (Continued)

Remote Control



① **Power ON button [POWER ON]** → **(See P. E-14.)**

Turns the power ON.

② **Power OFF button [POWER OFF]** → **(See P. E-14.)**

Turns the power OFF.

③ **RGB input mode selector button [RGB]** → **(See P. E-15.)**

Switches between RGB input modes.

④ **Video input mode selector button [VIDEO]** → **(See P. E-15.)**

Switches between video input modes.

⑤ **Wide screen selector button [WIDE]** → **(See P. E-16–E-17.)**

Switches the screen over to a desired wide screen.

⑥ **Menu button [MENU]** → **(See P. E-18–E-36.)**

Use this button to display a desired menu for adjusting the picture.

⑦ **Volume adjustment buttons [VOL +/-]**

Unused.

⑧ **Adjustment buttons [◀ / ▶ / ▲ / ▼]** → **(See P. E-18–E-36.)**

Use these buttons to scroll through options in a menu and change values.

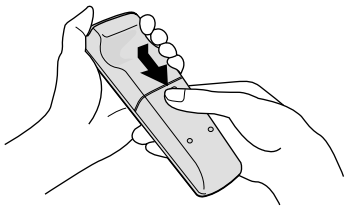
⑨ **Enter button [ENTER]** → **(See P. E-18–E-36.)**

Press this button to finalize the selection of a desired menu or option within a menu.

⑩ **Display selector buttons [SHIFT 1–4]** → **(See P. E-34 .)**

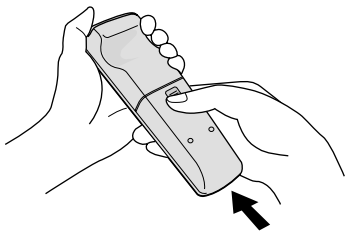
When you use two or more displays, you can use these buttons to control up to four displays by assigning a unique number to each display.

PUTTING BATTERIES IN THE REMOTE CONTROL



① To remove the cover, slide it outwards while pressing it down.

② Place two AA batteries in the remote control. Make sure that the batteries are properly oriented.



③ Close the cover until it snaps into place.

CAUTION: Be sure to use replacement batteries of the same type as the original ones.
When disposing of used batteries, please comply with governmental regulations or environmental public institution's rules that apply in your country/area.

Note

The remote control will not function properly if the batteries are dead. Be sure to replace them as needed.

USING THE REMOTE CONTROL

PRECAUTIONS

To prevent malfunction, be sure not to apply any form of severe shock to the remote control.

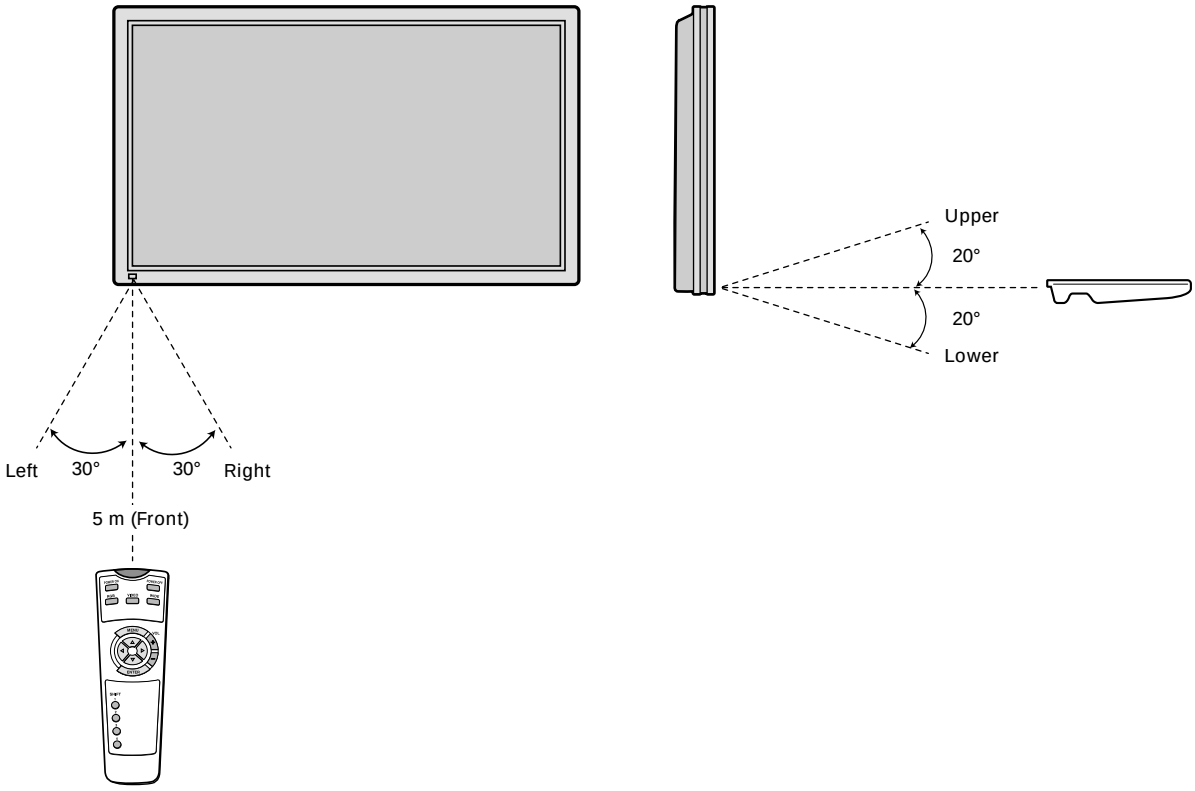
To prevent malfunction or deformation, be sure not to allow the remote control to become wet; also, keep it away from hot locations or heating equipment.

Be sure not to clean the remote control using a cloth dampened in any volatile solvent, such as benzene or thinner.

EFFECTIVE RANGE FOR THE REMOTE CONTROL

Point the remote control at the display's signal receiver when using it.

Make sure that there are no obstacles between the remote control and the display's signal receiver.



Information

The remote control may not function properly if you use a high-frequency fluorescent lamp. If you experience problems, move the lamp or use the remote control from a different position.

CONNECTING THE DISPLAY TO EXTERNAL EQUIPMENT

Be sure to turn OFF the power to the display and external equipment before making any connections.

No cables are supplied with the display for connection to external equipment. The type of cable to be used varies depending on the PC model. Contact your dealer for more information.

RECEPTACLE

Make sure that the power cable's grounding wire is grounded.

The display comes with a 3-prong power plug; one prong is connected to the grounding wire. If you have only a 2-hole receptacle, you will need to have it replaced. Contact your dealer for more information.

CONNECTING THE DISPLAY TO EXTERNAL EQUIPMENT

Carefully check the terminals for position and type before making any connections.

Loose connectors can result in picture or color problems. Make sure that all connectors are securely inserted into their terminals.

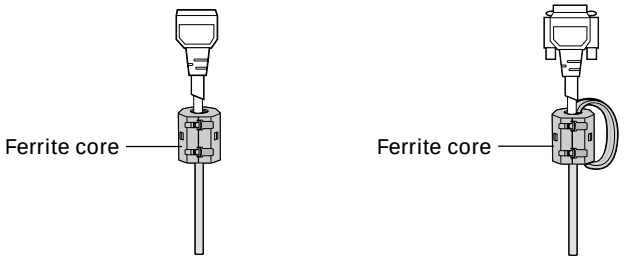
Terminal	Connector
VIDEO INPUT	BNC
S-VIDEO INPUT	S terminal
COMPONENT VIDEO INPUT	BNC x 3
RGB INPUT	mD-sub 15-pin , BNC x 5 , DVI-D
RS-232C	D-sub 9-pin

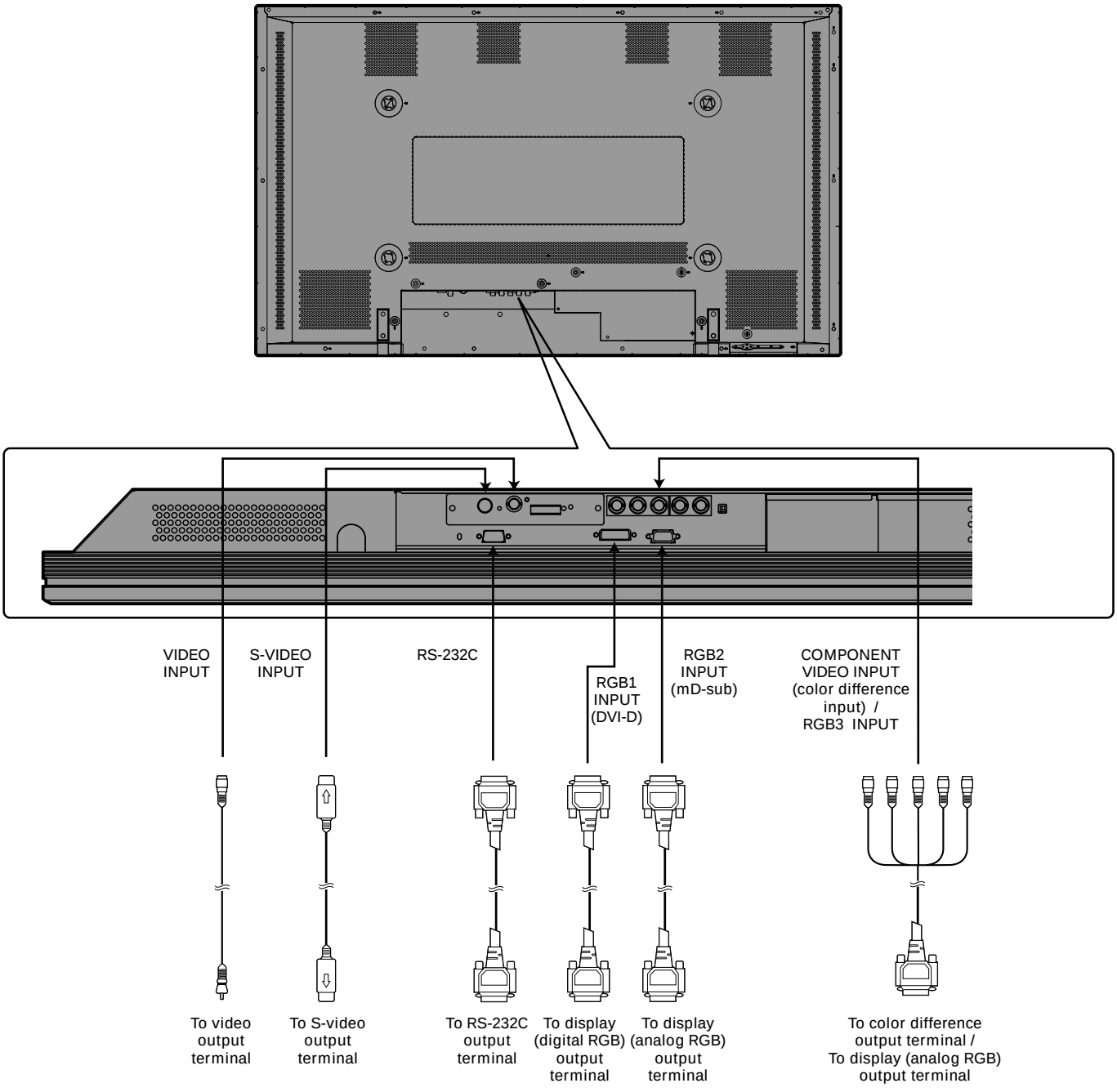
Ferrite cores

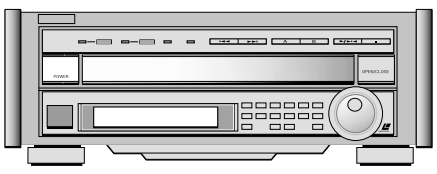
These ferrite cores are used to attenuate undesired signals.

Two ferrite cores

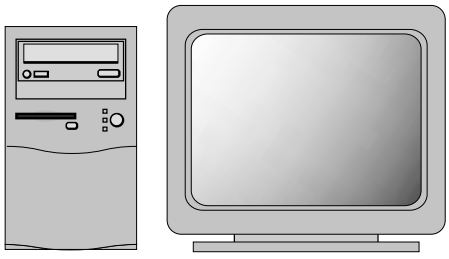
When connecting a cable to the power input terminal, RS-232C terminal, attach one of these ferrite cores to the cable near the terminal.




VIDEO INPUT
S-VIDEO INPUT
RS-232C
RGB1 INPUT (DVI-D)
RGB2 INPUT (mD-sub)
COMPONENT VIDEO INPUT (color difference input) / RGB3 INPUT
To video output terminal
To S-video output terminal
To RS-232C output terminal
To display (digital RGB) output terminal
To display (analog RGB) output terminal
To color difference output terminal / To display (analog RGB) output terminal



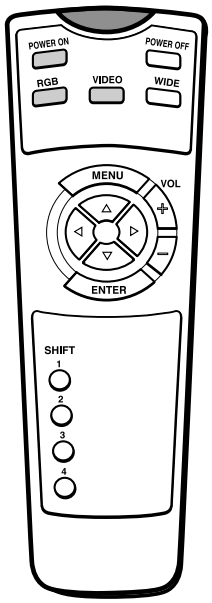
Connection to AV equipment



Connection to PC

BASIC OPERATIONS

TURNING ON THE POWER



* You can also use the switches on the display's control panel to accomplish these steps.

1 **Select the OFF/STD-BY ⏻ switch at the STD-BY ⏻ of the display.**

When you do so, the power indicator lamp turns red.

2 **Press POWER ON on the remote control.**

When you do so, the power indicator lamp turns green.

3 **Press RGB or VIDEO to select a desired input mode.**

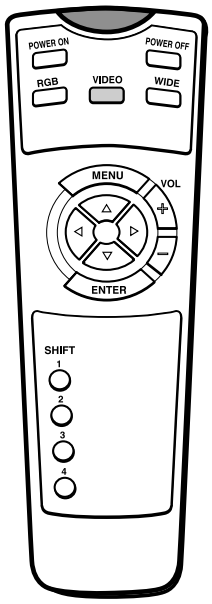
TURNING OFF THE POWER

Press POWER OFF when the power is ON.

The power indicator lamp turns red.

SELECTING INPUT MODE

VIDEO INPUT MODE



* You can also use the switches on the display's control panel to accomplish these steps.

1 **Press VIDEO to select a desired input mode.**

Each time you press VIDEO, a different input mode appears. The sequence is as follows:

→Video→S-video→Comp.video

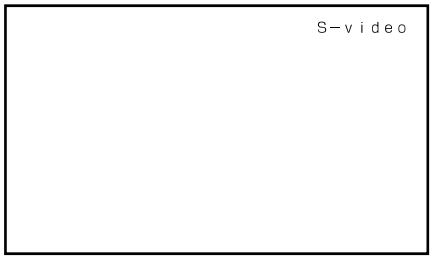
Video: Displays pictures from equipment connected to the Video terminal.

S-video: Displays pictures from equipment connected to the S-video terminal.

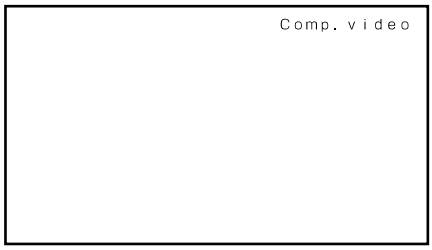
Comp.video: Displays pictures from equipment connected to the component video input terminal.

* You can switch between video input modes while you are in RGB input mode.

* When Comp.video input terminal is connected, RGB3 mode is not available.
Setting is made in BNC Input mode. (See P. E-31.)

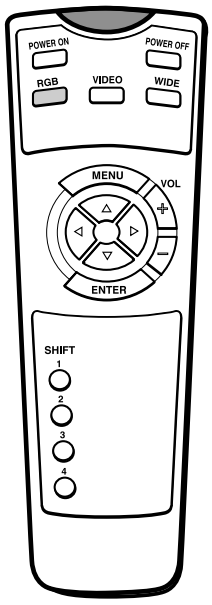


S-video mode



Comp.video mode

RGB INPUT MODE



* You can also use the switches on the display's control panel to accomplish these steps.

1 **Press RGB to select a desired input mode.**

Each time you press RGB, a different input mode appears. The sequence is as follows:

→RGB1→RGB2→RGB3

RGB1: Displays pictures from equipment connected to the RGB1 (DVI-D) terminal.

RGB2: Displays pictures from equipment connected to the RGB2 (mD-sub) terminal.

RGB3: Displays pictures from equipment connected to the RGB3 (BNC x5) terminal.

* You can switch between RGB input modes while you are in a video input mode.

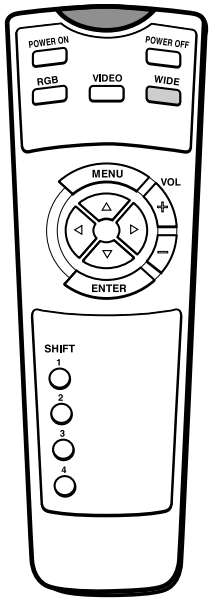
* When RGB3 input terminal is connected, Comp.video mode is not available.
Setting is made in BNC Input mode.(See P. E-31.)

RGB1 mode

RGB2 mode

WATCHING PICTURES ON THE WIDE SCREEN

SWITCHING BETWEEN SCREEN SIZES



* You can also use the switches on the display's control panel to accomplish these steps.

1 **Press WIDE.**

The currently selected mode will appear.

2 **Press WIDE to select a desired picture mode.**

Each time you press WIDE, a different picture mode appears. The sequences used are as follows:

When you are in a Video or S-video input mode

Normal → Auto → Wide1 → Wide2 → Zoom2 → Zoom1 → Normal

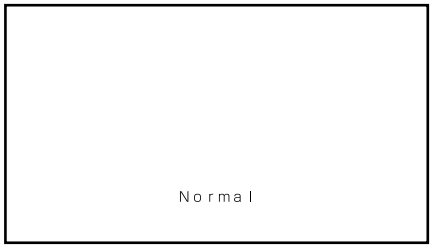
When you are in a Comp.video input mode

Normal → Wide1 → Wide2 → Zoom2 → Zoom1 → Normal

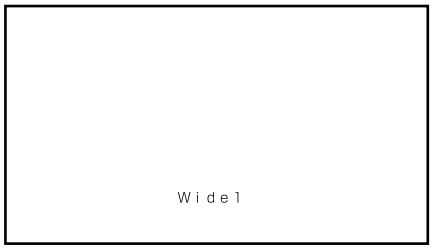
When you are in an RGB input mode

Normal → Wide → Zoom → Normal

* Depending on the type of signal, some aspects may not be selected.



Normal mode



Wide1 mode

Note

- Displaying a picture in a Normal mode for extended periods of time may cause phosphor burn-in.
- A variety of picture modes are available with this display. Remember that if you select a mode with an aspect ratio (ratio of frame width to frame height) different from that of the TV program or video media, the pictures will appear differently than if you had selected a mode having the same aspect ratio.
- Showing a movie or similar premium event at a different aspect ratio from its original one at any event site, restaurant, or bar for profit-making purposes or for a public audience may constitute a copyright infringement.

  For films, try to select a mode having the same aspect ratio as the original picture; this enables the director's original intentions to be preserved.

Reference

See P. E-26–E-27 for how to adjust the picture size and position.

SCREEN SIZE

Normal

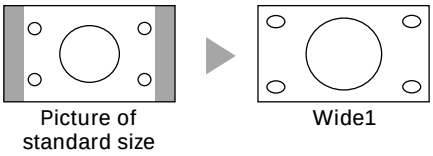
Displays pictures of normal size (i.e., a 4:3 aspect ratio).

Auto

The screen size changes automatically in accordance with the contents of image software you use.

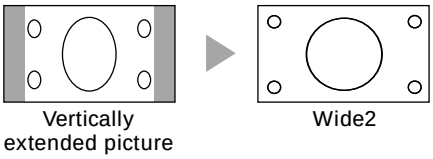
Wide1

Displays natural-looking pictures of standard size on the wide screen.



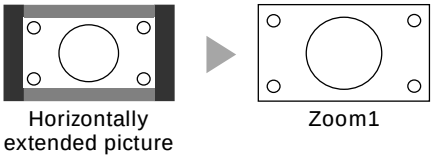
Wide2/Wide

Ideal for displaying vertically extended pictures such as squeezed pictures and recorded HDTV programs.



Zoom1/Zoom

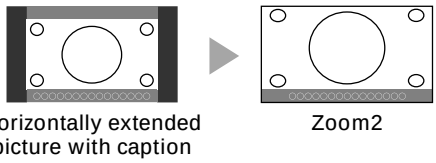
Enlarges horizontally extended pictures equally in all directions to maintain the aspect ratio constant.



Zoom2

Reduces the height of horizontally extended pictures with captions, without eliminating the caption. Only the height of pictures is reduced, not the height of the caption.

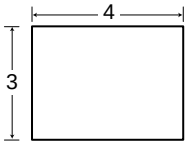
(Captions may not be easy to read, however, depending on the picture.)



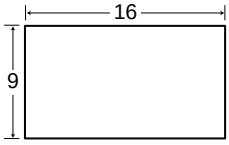
ASPECT RATIO

The following aspect ratios are available.

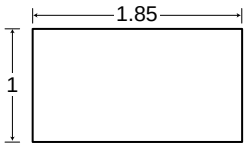
4:3 aspect ratio
(VHF/UHF broadcasting, BS broadcasting)



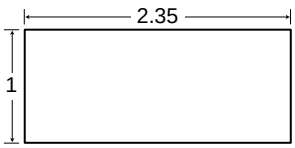
16:9 aspect ratio
(HDTV broadcasting)



1.85:1 aspect ratio
(Vista Vision size)



2.35:1 aspect ratio
(Cinema Vision size)



Information

You may find dark areas on top and at the bottom of the screen if you select one of the Zoom modes for media while using the Vista Vision or Cinema Vision size i.e., the sizes used frequently for picture software.

HOW TO USE MENUS

SELECTING OPTIONS IN A MENU

Use the [MODE] button on the display or VIDEO and RGB on the remote control to select a desired input mode.

1 **Press MENU.**

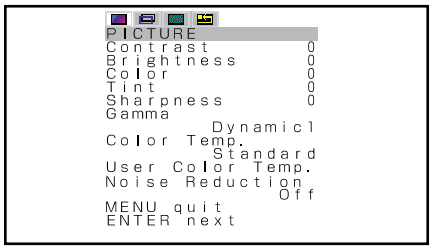
The main menu screen will appear.

2 **Press ◀ or ▶ to switch between sub-menus.**

Each time you press ◀ or ▶, one of the available menus appears.

The corresponding menu screen will appear.

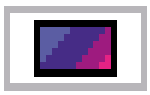
3 **Press ▲ or ▼ to select an option for adjustment/setup.**



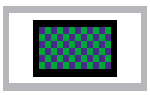
Ex.: "PICTURE" selected in the main menu screen

A total of four different menus (PICTURE, POSITION/SIZE, FEATURES, FACTORY DEFAULT) are available.

You can easily distinguish between these menus as shown below.


PICTURE

POSITION/SIZE


FEATURES

FACTORY DEFAULT

* Press ◀, ▶, ▲ or ▼ to make adjustment/setup, and press ENTER to store.

* Do not change input signals when any of the menus are displayed.

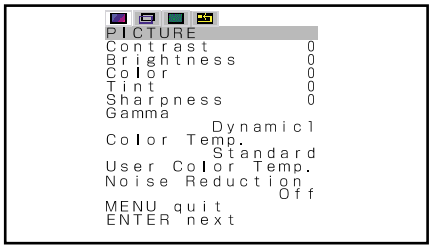
USING THE PICTURE MENU

When you finish selecting a desired option in the PICTURE menu screen, press ENTER.

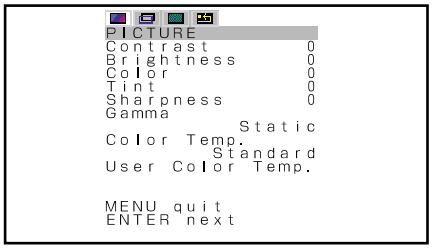
At this time, the adjustment/setup screen for that option will appear.

You can use ◀ or ▶ to change the value for the option. Press ENTER to store. (See P. E-24–E-25.)

Changes you make will be stored only for the selected mode.



PICTURE Menu screen (Video Input Mode)



PICTURE Menu screen (RGB Input Mode)

Option	Function	Operation	Range
(1) Contrast	Adjusts picture contrast.	▶: Higher contrast ◀: Lower contrast	-30 to +30
(2) Brightness	Adjusts screen brightness.	▶: Brighter screen ◀: Darker screen	-60 to +60
(3) Color	Adjusts color darkness.	▶: Darker colors ◀: Lighter colors	-60 to +60
(4) Tint	Adjusts tint.	▶: More greenish colors ◀: More purplish colors	-30 to +30 (Video, S-video) -60 to +60 (Comp.video, RGB)
(5) Sharpness	Adjusts picture sharpness.	▶: Sharper pictures ◀: Less sharp pictures	-16 to +16
(6) Gamma	Makes gamma correction.	Use ▶ or ◀ for switching.	Video, S-video, Comp.video Dynamic1/Dynamic2/ Dynamic3/Dynamic4 RGB Dynamic1/Dynamic2/ Dynamic3/Dynamic4/Static
(7) Color Temp.	Adjusts color temperature.	Use ▶ or ◀ for switching.	Warm/Standard/Cool/User
(8) User Color Temp.	Can set up when User is selected in Color Temp.	Press ▲ or ▼ to select Red, Green or Blue and press ▶ or ◀ to make adjustment.	0 to 255 for each of Red, Green and Blue
(9) Noise Reduction (for Video, S-video, Comp.video)	Sets up noise reduction.	Use ▶ or ◀ for switching.	Off/Min./Std./Max.

USING THE POSITION/SIZE MENU

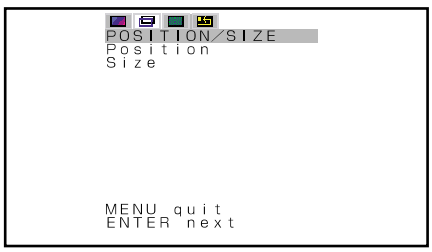
When you finish selecting a desired option in the POSITION/SIZE menu screen, press ENTER.

When you do so, the adjustment screen for that option appears.

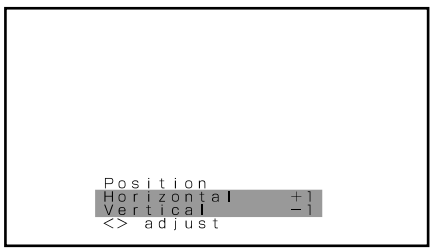
Press ▲ or ▼ to select option and press ▶ or ◀ to make adjustment. Press ENTER to store. (See P. E-26–E-27.)

Changes you make will be stored only for the selected mode.

*You cannot adjust screen size in RGB1 (DVI-D) mode.



POSITION/SIZE Menu screen



"Position" adjustment screen

Option	Function	Operation	Range
(1) Position	Adjusts screen position.		Video, S-video Horizontal: -30 to +30 Vertical Zoom: -15 to +15 Others:-7 to +7 Comp.video: -16 to +16 1080I,720P: -32 to +32 RGB-PC: -150 to + 150 Decoder: -16 to + 16 1080I,720P: -32 to +32
Horizontal	Adjusts horizontal position.	▶: Moves screen to the right. ◀: Moves screen to the left.	
Vertical	Adjusts vertical position.	▲: Moves screen up. ▼: Moves screen down.	
(2) Size	Adjusts screen size.		Video, S-video: -7 to +7 Comp.video: -4 to +4 RGB-PC: -25 to +50 Decoder: -4 to +4
Width	Adjusts width.	▶: Increases width. ◀: Reduces width.	
Height	Adjusts height.	▲: Increases height. ▼: Reduces height.	

HOW TO USE MENUS (Continued)

USING THE FEATURES MENUS

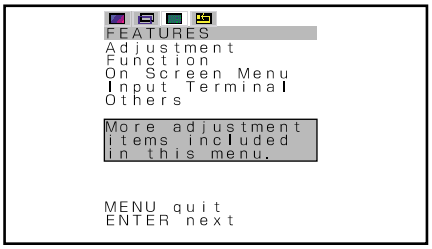
- **FEATURES setup screen has 5 options of Adjustment, Function, On Screen, Input Terminal and Others.**
- **Options with "┐" on the right**

  When you select an option with "┐", press ENTER. The adjustment/setup screen for that option appears.(See P. E-28–E-35.)

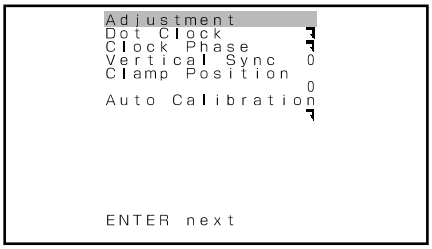
  You can use ◄ or ► on this screen to make selections or changes.Press ENTER to store.
- **Options with no "┐" on the right**

  When you select an option with no "┐", press ◄ or ► to make selections or changes. Press ENTER to store. (See P. E-28–E-35.)

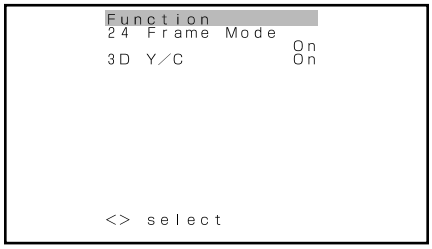
FEATURES Menu



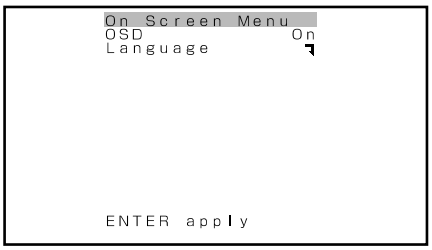
FEATURES Menu screen (Comp.video Input Mode)



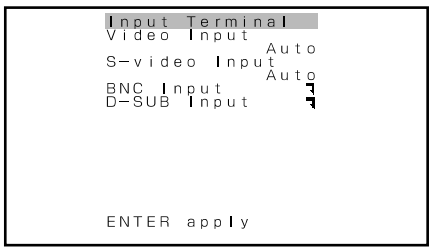
Adjustment Menu screen



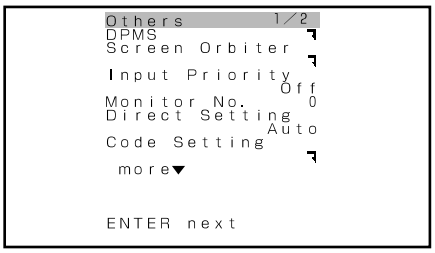
Function Menu screen



On Screen Menu screen



Input Terminal Menu screen



Others(1/2) Menu screen

Adjustment Menu (See P. E-28–E-29.)

Option	Function	Operation	Range
(1) Dot Clock (for RGB2, RGB3)	Adjusts the dot clock.	Eliminates blur when the optimum value is selected with ◄ or ►.	-60 to +60
(2) Clock Phase (for RGB2, RGB3)	Adjusts clock phase.	Eliminates blur when the optimum value is selected with ◄ or ►.	Auto/Manual (Can adjust 1 to 32 for Manual)
(3) Vertical Sync (for RGB2, RGB3)	Corrects vertical synchronization signal.	Use ◄ or ► to select the optimum value for eliminating flicker.	-1 to +1
(4) Clamp Position (for Comp.video, RGB2, RGB3)	Adjusts clamp pulse phase.	Use ◄ or ► for switching.	-8 to +8
(5)Auto Calibration (for RGB2, RGB3)	Selects the optimum dynamic range of images.	Display Auto Calibration screen and press ENTER to execute. Select Execute, and select Yes and press ENTER to execute Auto Calibration.	Execute Yes/No

Function Menu(See P. E-28, E-30.)

Option	Function	Operation	Range
(1) 24 Frame Mode (for Video, S-video, Comp.video)	Displays the optimum movie pictures.	Use ◀ or ▶ for switching.	On (Movie) / Off (Normal)
(2) 3D Y/C (for Video(3.58NTSC))	Selects whether to enable the 3D Y/C circuit.	Use ◀ or ▶ for switching.	On (3D Y/C circuit) / Off (3-line)

On Screen Menu(See P. E-28, E-30)

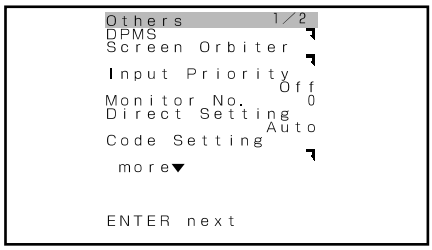
Option	Function	Operation	Range
(1) OSD	Selects whether to display information other than menus.	Use ◀ or ▶ for switching.	On (displayed) / Off (not displayed)
(2) Language	Selects language used for menus.	Display the “Language” selection screen and use ▲ or ▼ to select a language. Press ENTER to display menus in the selected language.	English Deutsch (German) Español (Spanish) Français (French) Italiano (Italian) Português (Portuguese)

Input Terminal Menu(See P. E-28, E-31–E-32.)

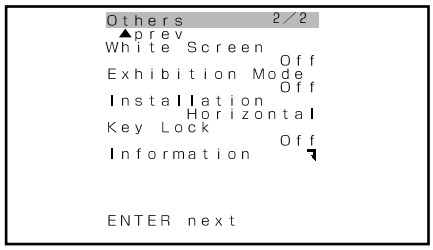
Option	Function	Operation	Range
(1) Video Input (for Video)	Selects video mode.	Use ◀ or ▶ for switching.	Auto/NTSC/PAL/SECAM/ PAL60/N-PAL/M-PAL/ 4.43NTSC
(2) S-video Input (for S-video)	Selects video mode.	Use ◀ or ▶ for switching.	Auto/NTSC/PAL/SECAM/ PAL60/N-PAL/M-PAL/ 4.43NTSC
(3) BNC Input	Selects BNC Input signal.	Display BNC Input screen and press ▲ or ▼ to select an option. Use ◀ or ▶ for switching. Select Comp.video or Decoder by Function to set up Mask.	Function Comp.video/RGB-PC/ Decoder Mask Off/5/10/15 (dot)
(4) D-SUB Input	Selects D-SUB Input signal.	Display D-SUB Input screen and press ▲ or ▼ to select an option. Use ◀ or ▶ for switching. Select Decoder by Function to set up Mask.	Function RGB-PC/Decoder Mask Off/5/10/15 (dot)

Others Menu(See P. E-28, E-32–E-35.)

Others Menu screen is divided into the following two screens.



Others(1/2) Menu screen

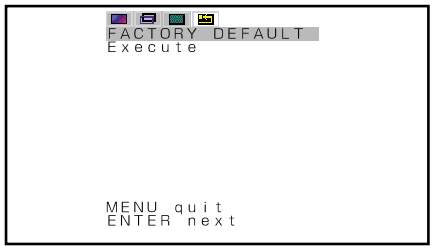


Others(2/2) Menu screen

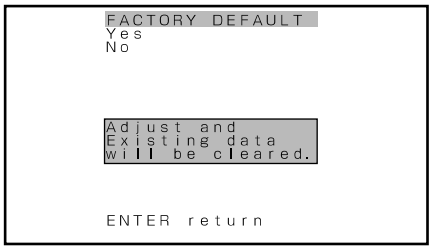
Option	Function	Operation	Range
(1) DPMS (for other than RGB1)	Specifies time before DPMS starts. Can specify the background color when specifying time.	Display DPMS screen and press ▼ or ▲ to select an option. Use ► or ◄ for switching. Can specify background by setting time to other than Off. Press ENTER to store.	Time Off (disabled)/1 min./ 15 min./45 min./60 min. Background Black/White
(2) Screen Orbiter (for RGB)	Sets up screen orbiter.	Display the “Screen Orbiter” adjustment screen and use ▼ or ▲ to select an option. Use ► or ◄ to switch between available choices for the selected option.	Mode/Time Off (disabled) Time (every 1 hr) Mode (every time mode is switched) Moving area Min.(moves in small range) Std.(moves in moderate range) Max. (moves in wide range)
(3) Input Priority	Specifies input mode of highest priority.	Use ► or ◄ for switching.	Off/RGB2/RGB3/Video/ S-video/Comp.video
(4) Monitor No.	Selects display number.	Use ► or ◄ for switching.	0 (no setup) 1/2/3/4
(5) Direct Setting (for RGB)	Selects input signal.	Use ► or ◄ for switching.	RGB1: Auto/VGA/WVGA/XGA/ WXGA RGB2, RGB3: Auto/VGA/WVGA/480P/ XGA/WXGA/SXGA/ SXGA+
(6) Code Setting (for RGB2, RGB3)	Specifies and displays type of input signal directly.	Display Code Setting screen and press ▼ or ▲ to select an option. Select Manual to set up Parameter.	Auto/Manual
(7) White Screen	Sets up to display white over the entire screen.	Use ► or ◄ for switching.	On /Off(disabled)
(8) Exhibition Mode	Sets up Exhibition mode.	Use ► or ◄ for switching.	On (Exhibition mode)/ Off(disabled)
(9) Installation	Sets up whether horizontal or vertical installation.	Use ► or ◄ for switching.	-90 Deg. (counterclockwise)/ Normal/ +90 Deg. (clockwise)
(10) Key Lock	Locks the main unit button.	Use ► or ◄ for switching.	On (Key Lock)/ Off(disabled)
(11) Information	Displays system operation status.	Display the “Information” screen.	Display only

USING THE FACTORY DEFAULT MENU

- **Select FACTORY DEFAULT and execute to restore the adjustment/setting made in the MENU to factory settings. (See P. E-36.)**



FACTORY DEFAULT Menu screen



Yes/No selection screen

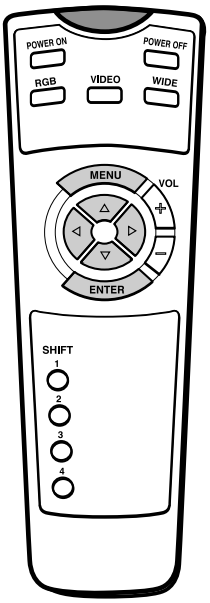
Option	Function	Operation	Range
FACTORY DEFAULT	Restores the adjustment/ setting made in the MENU to factory settings.	Select Execute and Yes, and press ENTER to restore factory settings.	Yes/No

ADJUSTING PICTURES (PICTURE MENU)

BASIC OPERATIONS [EX.: ADJUSTING TINT (Tint)]

You can make changes to all picture adjustment options in the PICTURE Menu.

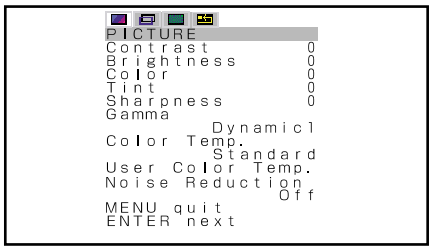
The changes you make will be stored for a selected input mode. Therefore, you need to select a desired input mode before making any changes.



* You can also use the switches on the display's control panel to accomplish these steps.

1 **Press MENU.**

The main menu screen will appear.



"PICTURE" selected in the main menu screen

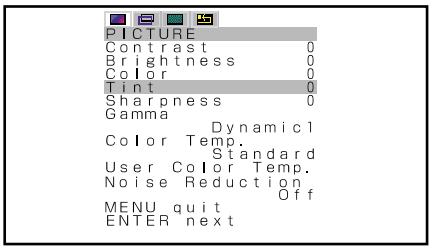
2 **Press ◀ or ▶ to select "PICTURE".**

Each time you press ◀ or ▶, one of the available menus appears in the following sequence:

PICTURE ⟷ POSITION/SIZE ⟷ FEATURES ⟷ FACTORY DEFAULT

The PICTURE Menu screen will appear.

3 **Press ▲ or ▼ to select "Tint".**



"Tint" selected in the PICTURE Menu screen (Video Input Mode)

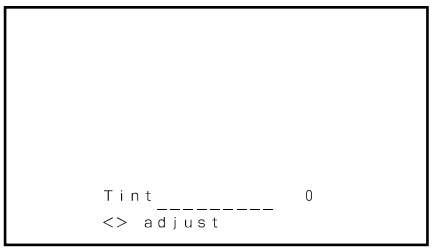
4 **Press ENTER.**

The "Tint" adjustment screen will appear.

5 **Press ◀ or ▶ to change tint values.**

▶: More greenish colors

◀: More purplish colors



"Tint" adjustment screen

6 **Press ENTER to store.**

Press MENU when you finish.

* Repeat steps 3, 4, 5, and 6 when you wish to make changes to other options.

* On-screen information disappears if you do not take any action for about 60 seconds.
* The following abbreviations used in this document represent input modes in which you can make adjustments:
  Ⓥ: Video mode, Ⓢ: S-video mode, Ⓒ: Comp.video mode, Ⓡ: RGB mode

• Adjusting Contrast (Contrast)

V S C R

Any value between -30 and +30 can be selected.

: Higher contrast

: Lower contrast

Press ENTER to store.

• Adjusting Screen Brightness (Brightness)

V S C R

Any value between -60 and +60 can be selected.

: Brighter screen

: Darker screen

Press ENTER to store.

• Adjusting Color Darkness (Color)

V S C R

Any value between -60 and +60 can be selected.

: Darker colors

: Lighter colors

Press ENTER to store.

• Adjusting Tint (Tint)

V S C R

Any value between -30 and +30 for [V S], and -60 and +60 for [C R] can be selected.

: More greenish colors

: More purplish colors

Press ENTER to store.

• Adjusting picture Sharpness (Sharpness)

V S C R

Any value between -16 and +16 can be selected.

: Sharper pictures

: Less sharp pictures

Press ENTER to store.

• Making gamma correction(Gamma)

V S C R

You can use this option to make a dynamic gamma correction suitable for still or motion pictures.

Each time you press or , one of the available choices appears in the following sequence:

Dynamic1 ↔ Dynamic2 ↔ Dynamic3 ↔ Dynamic4 ↔ Static

Dinamic1, 2, 3, 4: Suitable for watching a motion picture.(Use either of better picture quality.)

Static: Suitable for watching a still picture.

Press ENTER to store.

* Can select Static only in RGB mode.

• Adjusting Color Temperature (Color Temp.)

V S C R

Use or to specify a desired color temperature. Each time you press or , one of the available choices appears in the following sequence:

Warm ↔ Standard ↔ Cool ↔ User

Warm: More reddish colors

Standard: Standard color temperature

Cool: More bluish colors

User: User Color Temp. setup

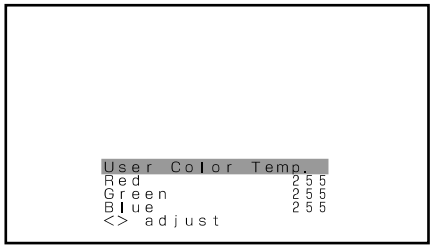
• Setting User Color Temp. (User Color Temp.)

V S C R

Can set up when User is selected in Color Temp.

Press or to select Red, Green or Blue and press or to make adjustment in the range of 0 to 255.

* Color Temp. setup is switched to User. The initial value of User Color Temp. is adjusted individually at the factory.



User Color Temp.adjustment screen

Setting Noise Reduction (Noise Reduction)

V S C

Can select the noise reduction setting corresponding to the noise level of the input signal.

Each time you press or ,one of the available choices appears in the following sequence:

Off ↔ Min. ↔ Std. ↔ Max.

Off: Noise reduction does not function.

Min.: Weak setting

Std.: Standard setting

Max.: Strong setting

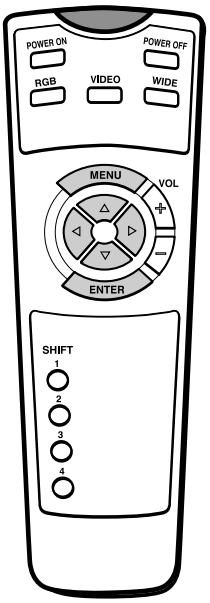
*Some type of signal can not be selected.

ADJUSTING SCREEN POSITION AND SIZE (POSITION/SIZE MENU)

BASIC OPERATION [EX.: ADJUSTING HORIZONTAL DIRECTION OF SCREEN POSITION]

You can make changes to all screen adjustment options in the POSITION/SIZE Menu.

The changes you make will be stored for the selected input mode. Therefore, you need to select a desired input mode before making any changes.



* You can also use the switches on the display's control panel to accomplish these steps.

1 **Press MENU.**

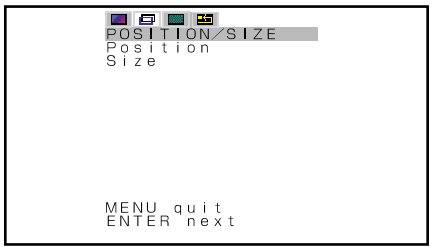
The main menu screen will appear.

2 **Press ◄ or ► to select "POSITION/SIZE".**

Each time you press ◄ or ►, one of the available menus appears in the following sequence:

PICTURE ◄► POSITION/SIZE ◄► FEATURES ◄► FACTORY DEFAULT

The POSITION/SIZE Menu screen will appear.



"POSITION/SIZE" selected from the main menu screen

3 **Press ▲ or ▼ to select "Position".**

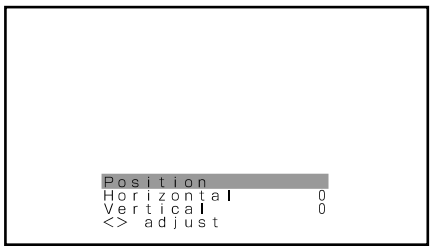
4 **Press ENTER.**

The "Position" adjustment screen will appear.

5 **Press ▲ or ▼ to select "Horizontal" values of screen position.**

6 **Press ENTER.**

The "Horizontal" adjustment screen will appear.



"Position" adjustment screen

7 **Press ◄ or ► to change horizontal values.**

►: Moves screen to the right.

◄: Moves screen to the left.

8 **Press ENTER to store.**

Press MENU when you finish.

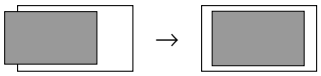
* Repeat steps 3 to 8 when you wish to make changes to other options.

Adjusting Screen Position (Position)

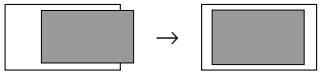
Ⓥ Ⓢ Ⓒ Ⓡ

Horizontal position (Horizontal)

: Moves screen to the right.



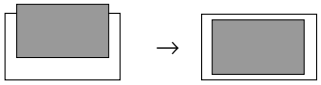
: Moves screen to the left.



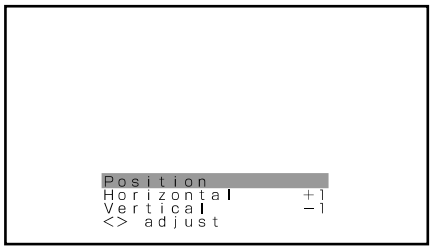
Vertical position (Vertical)

: Moves screen up.

: Moves screen down.



Press ENTER to store.



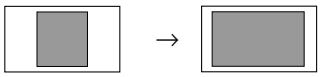
"Position" adjustment screen

Adjusting Screen Size (Size)

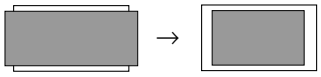
Ⓥ Ⓢ Ⓒ Ⓡ

Screen width (Width)

: Increases width.

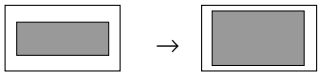


: Reduces width.

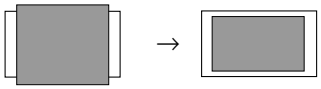


Screen height (Height)

: Increases height.

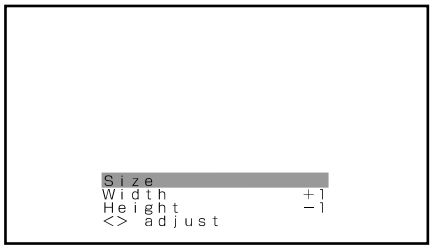


: Reduces height.



Press ENTER to store.

*You cannot adjust screen size in RGB1 (DVI-D) mode.



"Size" adjustment screen

Setting Range

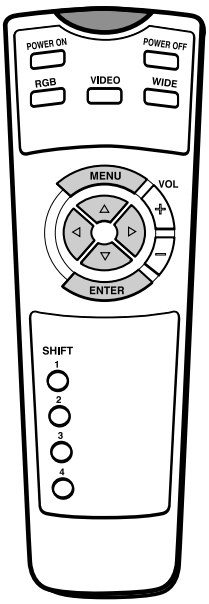
	Video, S-video mode	Comp.video mode	RGB mode
Position	Horizontal: -30 to +30 Vertical Zoom: -15 to +15 Others: -7 to +7	-16 to +16 -32 to +32 (for1080I,720P)	RGB-PC: -150 to +150 Decoder: -16 to +16 -32 to +32 (for1080I,720P)
Size	-7 to +7	-4 to +4	RGB-PC: -25 to +50 Decoder: -4 to +4

* On-screen information disappears if you do not take any action for about 60 seconds.
* The following abbreviations used in this document represent input modes in which you can make adjustments:
Ⓥ: Video mode, Ⓢ: S-video mode, Ⓒ: Comp.video mode, Ⓡ: RGB mode

OTHER ADJUSTMENTS (FEATURES MENU)

BASIC OPERATION [EX.: SELECTING LANGUAGE (Language)]

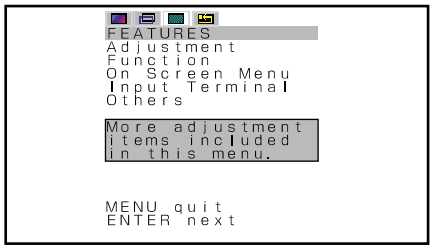
You can make the following changes in the FEATURES Menu.



* You can also use the switches on the display's control panel to accomplish these steps.

1 **Press MENU.**

The main menu screen will appear.



"FEATURES" selected in the main menu screen

2 **Press ◄ or ► to select "FEATURES".**

Each time you press ◄ or ►, one of the available menus appears in the following sequence:

PICTURE ◄► POSITION/SIZE ◄► FEATURES ◄► FACTORY DEFAULT

The FEATURES Menu screen will appear.

3 **Press ▲ or ▼ to select "On Screen Menu".**

- Select a desired option for adjustment/setup from Adjustment, Function, On Screen Menu, Input Terminal and Others.

On Screen Menu screen

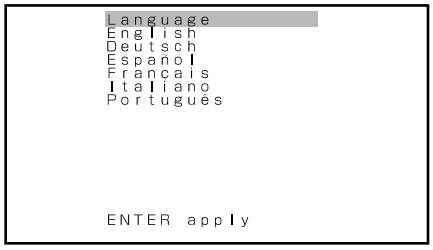
4 **Press ENTER.**

- On Screen Menu appears.

5 **Press ▲ or ▼ to select "Language".**

6 **Press ENTER.**

The "Language" selection screen will appear.



"Language" selection screen

7 **Press ▲ or ▼ to select the language.**

8 **Press ENTER.**

The menu is displayed in the selected language.

Press MENU when you finish.

* Repeat steps 3 to 8 when you wish to make changes to other options.

• FEATURES setup screen has the following 5 options.

Adjustment	: Can make a fine adjustment of pictures such as Dot Clock, Clamp Position.
Function	: Can make a function setting such as 24 Frame Mode, 3D Y/C. (See P. E-30.)
On Screen Menu	: Can make a display setting such as OSD, Language. (See P. E-30.)
Input Terminal	: Can make an input terminal setting such as Video Input. (See P. E-31–E-32.)
Others	: Can make other settings. (See P. E-32–E-35.)

ADJUSTMENT

• Adjusting Dot Clock (Dot Clock) R

You may find that pictures blur, depending on the clock frequency of your PC's processor.

If you experience blurring, you can obtain a clearer picture by adjusting the "Dot Clock".

Use ◄ or ► to select a value between -60 and +60.

Press ENTER to store.

• Adjusting Clock Phase (Clock Phase) R

You may find that pictures blur, depending on the clock phase of your PC's processor. If you experience blurring, you can obtain a clearer picture by adjusting the "Clock Phase".

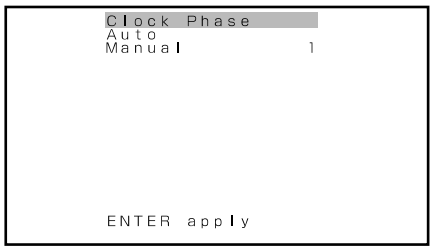
Use ▲ or ▼ to select "Auto" or "Manual".

Auto: Makes automatic adjustment.

Manual: Does not make automatic adjustment.

Use ◄ or ► to specify a value between 1 and 32.

Press ENTER to store.



When selecting Manual by Clock Phase

• Eliminating Flicker (Vertical Sync) R

Corrects the vertical synchronization signal timing to eliminate vertical flicker.

Use ◄ or ► to specify a value between -1 and +1.

Press ENTER to store.

*Some type of signal can not be selected.

• Adjusting Clamp Position (Clamp Position) C R

Adjusts clamp pulse in accordance with the input signal received from connected equipment.

Use ◄ or ► to specify a value between -8 and +8.

Press ENTER to store.

• Selecting the Optimum Dynamic Range of Images (Auto Calibration) R

Receives a white screen signal and adjusts the dynamic range of images to the optimum.

(1) Select Auto Calibration and press ENTER.

Auto Calibration screen appears.

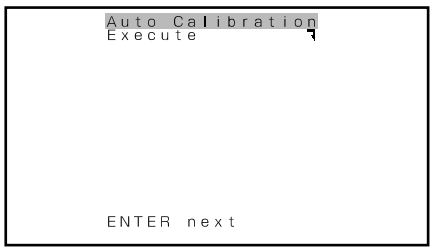
(2) Select Execute and press ENTER.

Press ▲ or ▼ to select Yes or No.

Yes: Stores the data of Auto Calibration.

No: Disables the execution result of Auto Calibration.

(3) Press ENTER to execute.



"Auto Calibration" setting screen

"Yes/No" selection screen

* On-screen information disappears if you do not take any action for about 60 seconds.
* The following abbreviations used in this document represent input modes in which you can make adjustments:
V: Video mode, S: S-video mode, C: Comp.video mode, R: RGB mode

FUNCTION

- **Displaying the optimum movie pictures (24 Frame Mode)** V S C

Can make the optimum display of 24 frames/second signals such as movie pictures.
Each time you press ◄ or ►, one of the available choices appears in the following sequence:

On ◄► Off

On : Displays the optimum movie pictures.
Off : Displays normal pictures.

Press ENTER to store.

*Some type of signal can not be selected.

- **Setting 3D Y/C Circuit (3D Y/C)** V

Selects whether to use the 3D Y/C circuit.
Each time you press ◄ or ►, one of the available choices appears in the following sequence:

On ◄► Off

On : Enables the 3D Y/C circuit.
You can make this selection only for 3.58NTSC signal.You can make the optimum display for the movie film signals.
Off : Enables 3-line.

Press ENTER to store.

ON SCREEN MENU

- **Setting Display Information (OSD)** **All modes**

You can use this option to select whether to display information other than menus. (Error messages are displayed regardless of what choice you make for this option.)

Each time you press ◄ or ►, one of the available choices appears in the following sequence:

On ◄► Off
On : Displays all information.
Off : Displays only menus and error messages.

Press ENTER to store.

- **Selecting Language (Language)** **All modes**

You can use this option to select the language displayed on the screen.

(1) Select “Language” and press ENTER .

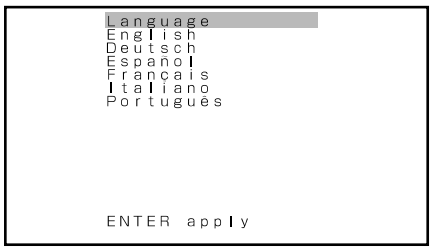
The “Language” selection screen will appear.

(2) Press ▲ or ▼ to select your desired language.

English
Deutsch (German)
Español (Spanish)
Français (French)
Italiano (Italian)
Português (Portuguese)

(3) Press ENTER.

The menu is displayed in the selected language.



"Language" selection screen

INPUT TERMINAL

• Selecting Video Mode (Video Input) [V]

You can use this option to select the desired video mode of pictures it will receive to the Video Input terminal.

Each time you press ◄ or ►, one of the available modes appears in the following sequence:

►Auto◄►NTSC◄►PAL◄►SECAM◄►PAL60◄►N-PAL◄►M-PAL◄►4.43NTSC◄

Auto: Automatically selects NTSC, PAL and SECAM.
Other than Auto: You need to select a system appropriate to the input signal.

Press ENTER to store.

• Selecting Video Mode (S-video Input) [S]

You can use this option to select the desired video mode of pictures it will receive to S-video Input terminal.

Each time you press ◄ or ►, one of the available modes appears in the following sequence:

►Auto◄►NTSC◄►PAL◄►SECAM◄►PAL60◄►N-PAL◄►M-PAL◄►4.43NTSC◄

Auto: Automatically selects NTSC, PAL and SECAM.
Other than Auto: You need to select a system appropriate to the input signal.

Press ENTER to store.

• Selecting BNC Input (BNC-Input) All modes

You can use this option to select the signal system it will receive to BNC Input terminal.

(1) Select BNC Input and press ENTER.
BNC Input screen appears.

(2) Select the signal system to receive.

Each time you press ◄ or ►, one of the available choices appears in the following sequence:

►Comp.video◄►RGB-PC◄►Decoder◄

Comp.video: For using color difference input.
RGB-PC: For using PC wih RGB signal input.
Decoder: For using decoder with RGB signal input.

(3) Press ▲ or ▼ to select Function.

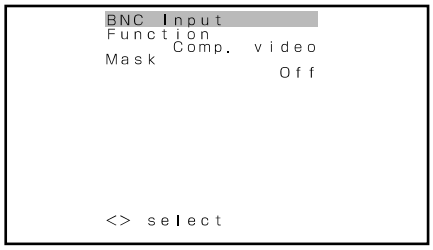
(4) Select Comp.video or Decoder by FUNCTION to set up Mask.

Each time you press ◄ or ►, one of the available choices appears in the following sequence:

►Off ◄►5 ◄►10 ◄►15◄

Off: Does not mask.
Number: Masks the fringe (top, bottom, right and left) of the screen by the number of pixels specified.

(5) Press ENTER to store.



"BNC-Input" selection screen

* On-screen information disappears if you do not take any action for about 60 seconds.
* The following abbreviations used in this document represent input modes in which you can make adjustments:
[V]: Video mode, [S]: S-video mode, [C]: Comp.video mode, [R]: RGB mode

INPUT TERMINAL

• Selecting D-SUB Input (D-SUB Input) — All modes

You can use this option to select the signal system it will receive to D-SUB Input terminal.

(1) Select D-SUB Input and press ENTER.

D-SUB Input screen appears.

(2) Select the signal system to receive.

Each time you press ◄ or ►, one of the available choices appears in the following sequence:

RGB-PC ◄► Decoder

RGB-PC: For using RGB for PC

Decoder: For using digital broadcast tuner

(3) Press ▲ or ▼ to select Function.

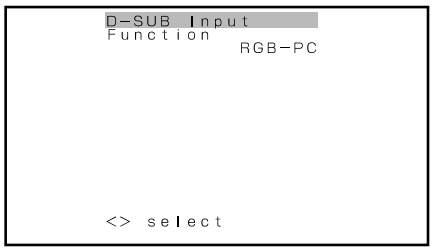
(4) Select Decoder by FUNCTION to set up Mask.

Each time you press ◄ or ►, one of the available choices appears in the following sequence:

Off ◄► 5 ◄► 10 ◄► 15

Off: Does not mask.

Number: Masks the fringe (top, bottom, right and left) of the screen by the number of pixels specified.



"D-SUB Input" selection screen

This fringe part is masked.

OTHERS MENU

• Selecting time before DPMS starts (DPMS) — All modes

You can use this option to select the amount of time before the DPMS function starts.

DPMS (which stands for “display power management signaling”) allows the display to maintain an automatic power saving function.

This function causes on-screen information to disappear until the next input operation, if the power is ON and the display has not received any signals for the predetermined period of time. When DPMS is active, the power indicator lamp turns orange.

(1) Select DPMS and press ENTER.

DPMS screen appears.

(2) Press ▲ or ▼ to select Time.

(3) Each time you press ◄ or ►, one of the available choices appears in the following sequence:

Off ◄► 1min. ◄► 15min. ◄► 45min. ◄► 60min.

Off: Disables DPMS

Number: Approximate time before DPMS starts. (Unit: minutes)

* The power indicator lamp turns orange while the DPMS is ON.

* The power turns ON automatically when the display receives a signal.

(4) Can specify background color.

Press ▲ or ▼ to select background color.

Each time you press ◄ or ►, one of the available choices appears in the following sequence:

Black ◄► White

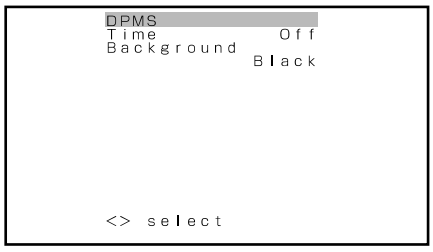
Black: Mutes images in Black background.

White: Mutes images in White background.

* Switches approx. 20 seconds after the display stops receiving signals.

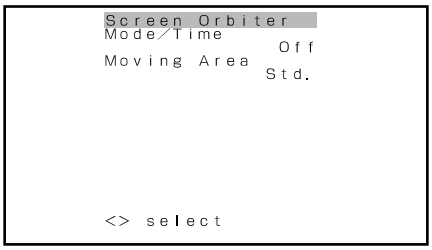
(5) Press ENTER to store.

* DPMS does not function in RGB1 mode.



DPMS selection screen

• Minimizing phosphor burn-in (Screen Orbiter) R



"Screen Orbiter" setting screen

You can use this option to move the screen position to minimize phosphor-induced "burn-in".

Follow the steps below.

(1) Select "Screen Orbiter" and press ENTER.

The "Screen Orbiter" setting screen will appear.

(2) Press ▲ or ▼ to select "Mode/Time".

(3) Select a desired pattern.

Each time you press ◄ or ►, one of the available choices appears in the following sequence:

► Off ◄► Time ◄► Mode ◄

Off:Disables Screen Orbiter.

Time: Moves the pattern approximately every one hour.

Mode: Moves the pattern when the power is turned ON or when you switch between modes.

(4) Press ▲ or ▼ to select "Moving Area".

(5) Press ► or ◄ to select the range for moving the pattern.

Each time you press ► or ◄, one of the available choices appears in the following sequence:

► Min. ◄► Std. ◄► Max. ◄

Min.: Pattern moves in small range. (About 5 pixels)

Std.: Pattern moves in moderate range. (About 10 pixels)

Max.: Pattern moves in wide range. (About 15 pixels)

(6) Press ENTER to store.

* When the Screen Orbiter function is operated in RGB1 mode, some letters at the top, bottom, right or left of the screen may be missed.

Using screen protection functions (examples)

The screen protection functions minimize phosphor burn-in but cannot completely eliminate it.

When using the display occasionally	When using the display continuously
• Select a desired amount of time for "DPMS". Thus, when the display does not receive a signal, it will automatically display white or black over the entire screen. When the predetermined time elapses, the power will turn OFF.	**When switching between RGB and video input modes only occasionally** (1) Select "Time" for "Mode/Time" with "Screen Orbiter". (2) Select a desired range for "Moving Area" with "Screen Orbiter". This causes the screen saver pattern to move in the same range at regular intervals. **When switching between RGB and video input modes frequently** (1) Select "Mode" for "Mode/Time" with "Screen Orbiter". (2) Select a desired range for "Moving Area" with "Screen Orbiter". When the mode is switched from Video to RGB, the display position moves.

• Input mode of priority (Input Priority) All modes

You can use this option to switch between modes only when a signal is received through the selected input mode terminal. You cannot switch the input mode.

Each time you press ◄ or ►, one of the available choices appears in the following sequence:

► Off ◄► RGB2 ◄► RGB3 ◄► Video ◄► S-video ◄► Comp.video ◄

Off: Switches between modes normally.

Other modes: Displays pictures when a signal is received through the selected input mode terminal.

Press ENTER to store.

*RGB1 mode cannot be selected.

* On-screen information disappears if you do not take any action for about 60 seconds.

* The following abbreviations used in this document represent input modes in which you can make adjustments:
V: Video mode, S: S-video mode, C: Comp.video mode, R: RGB mode

- **Assigning Numbers to Displays (Monitor No.)** **All modes**

When you use two or more displays, you can use a single remote control to control individual displays by assigning a unique number to each of the displays.

Each time you press ◄ or ►, one of the available numbers appears in the following sequence:

► 0 ◄► 1 ◄► 2 ◄► 3 ◄► 4 ◄

0: You can normally control displays.
You cannot control displays if you press any of [SHIFT 1] through [SHIFT 4].

1–4: Allows you to control a desired display by pressing the corresponding button (one of [SHIFT 1] through [SHIFT 4]).

When you do not press any of the SHIFT buttons, you can control all displays.

Press ENTER to store.

* You can check the "Monitor No." on the Information screen. (See P. E-35.)

- **Setting RGB Input Signal Compulsorily (Direct Setting)** R

You can use this option to switch the setting for RGB input signal.

Each time you press ◄ or ►, one of the available choices appears in the following sequence:

For RGB1 mode:

►Auto◄►VGA◄►WVGA◄►XGA◄►WXGA◄

For RGB2.3 mode:

►Auto◄►VGA◄►WVGA◄►480P◄►XGA◄►WXGA◄►SXGA◄►SXGA+◄

Auto: The optimum display is obtained automatically for input signals.

Others: The optimum resolution setting is fixed for each signal.

Press ENTER to store.

* In Auto mode, the resolution of VGA, WVGA, 480P, XGA, WXGA, SXGA and SXGA+ may not be automatically distinguished. Switch to the fixed display when the image is not displayed properly.

- **Specifying RGB Input Signal (Code Setting)** R

You can use this option to specify and display the type of RGB input signal by code number.

Each time you press ▲ or ▼, one of the available choices appears in the following sequence:

Auto ◄► Manual

Auto: Automatically displays the input signal to the optimum.

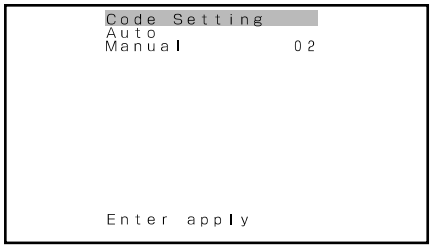
Manual: Selects RGB code number.

Press ENTER to store.

* In Auto mode, the optimum resolution may not be set up automatically depending on the type of signal.

Select the type of signal when the image is not displayed properly.

However, note that when the type of signal is selected directly, the signal of other resolution may not be displayed properly.



"Code Setting" setting screen

- **Displaying white over entire screen (White Screen)** **All modes**

You can use this option to display white over the entire screen to minimize phosphor burn-in.

Each time you press ◄ or ►, one of the available choices appears in the following sequence:

On ◄► Off

Off: Does not display white.

On: Displays a white screen immediately.

Press ENTER to store.

• Setting Exhibition Mode (Exhibition Mode) — All modes

You can use this option to display the enhanced contrast, which is most suitable for the use by unspecified persons.

Each time you press ◄ or ►, one of the available choices appears in the following sequence:

On ◄► Off

On: Sets up Exhibition mode.

Off: Sets up normal mode.

Press ENTER to store.

* In Exhibition mode, the display returns to the original setting in about 5 minutes even if the adjustment is changed.

* The setup will be cancelled when removing the power plug from the receptacle.

• Horizontal/Vertical installation (Installation) — All modes

You can use this option to setup the number of fan rotation and rotate the text, etc. for horizontal and vertical installation.

Each time you press ◄ or ►, one of the available choices appears in the following sequence:

► -90 Deg.◄► Normal ◄► +90 Deg.◄

-90 Deg. : Displays text from left to right when the display is installed with the power indicator lamp at the top.

Normal : Displays text normally.

+90 Deg. :Displays text from left to right when the display is installed with the power indicator lamp at the bottom.

Press ENTER to store.

* Be sure to make this setup when changing the direction of installation.

• Locking Main Unit Button (Key Lock) — All modes

You can use this option to disable the main unit button.

Each time you press ◄ or ►, one of the available choices appears in the following sequence:

On ◄► Off

On: Disables the main unit button.

Off: Enables the main unit button.

Press ENTER to store.

• Displaying System Status (Information)

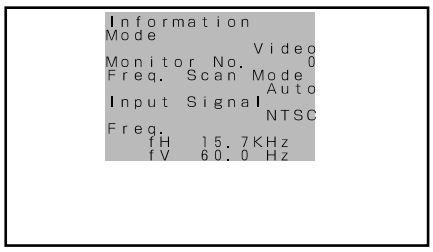
Ⓥ Ⓢ Ⓒ Ⓡ

Displays system operation status.

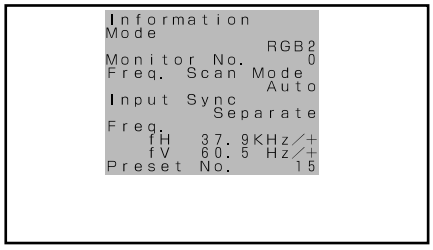
Select “Information” and press ENTER.

The “Information” screen will appear.

Mode:	Input mode appears at the upper right corner of the screen.
Monitor No.:	Monitor number
Freq. Scan Mode:	Frequency scanning
Input Signal:	Video mode
Input Sync.:	Signal type
Freq.:	Frequency and polarity (fH, fV)
Preset No.:	RGB code number



Information screen (Video Input Mode)



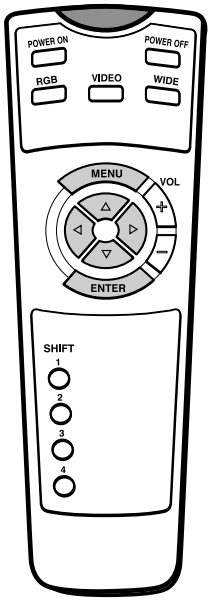
Information screen (RGB2 Input Mode)

* On-screen information disappears if you do not take any action for about 60 seconds.
* The following abbreviations used in this document represent input modes in which you can make adjustments:
Ⓥ: Video mode, Ⓢ: S-video mode, Ⓒ: Comp.video mode, Ⓡ: RGB mode

INITIALIZATION OF USER ADJUSTMENT VALUE(FACTORY DEFAULT)

BASIC OPERATION [EX.: RESTORING THE VALUES OF THE ADJUSTMENT/SETTING TO FACTORY SETTINGS]

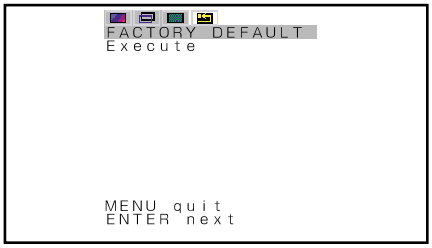
You can restore the values of the adjustment/setting made in the MENU to factory settings.



* You can also use the switches on the display's control panel to accomplish these steps.

1 **Press MENU.**

The main menu screen will appear.



"FACTORY DEFAULT" selected in the main menu screen

2 **Press ◄ or ► to select "FACTORY DEFAULT".**

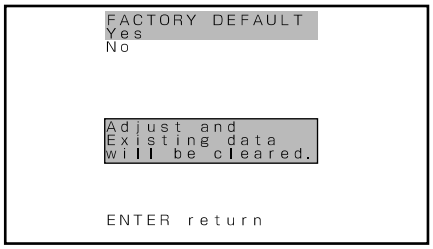
Each time you press ◄ or ►, one of the available menus appears in the following sequence:

PICTURE ◄► POSITION/SIZE ◄► FEATURES ◄► FACTORY DEFAULT

The FEATURES Menu screen will appear.

3 **Press ENTER.**

- Displays the message of whether to proceed with the initialization.



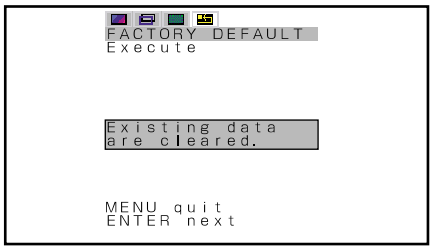
Displays the message of whether to proceed the initialization

4 **Press ▲ or ▼ to select the Yes.**

5 **Press ENTER.**

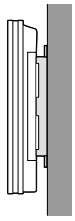
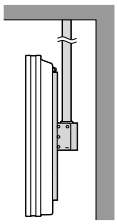
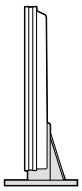
- The message of having completed the initialization will be displayed after initializing.

Press MENU when you finish.



Displays the message of having completed the initialization

OPTIONS

Wall-mounting unit (for horizontal)	Horizontal: 0° to 15° mounting angle	P-50WB01	
Hanging unit	0° to 15° mounting angle (variable) The pipe is not supplied with the ceiling-hanging unit, so consult your produce dealer.	P-50CT01	
Stand		P-50TT01	

* When installing an option, make sure that all installation requirements for that option (as given in the relevant instruction manual) are met.

* The colors of options do not match the display colors perfectly.

Warning

To prevent injury, fire, and electric shock, arrange for options to be initially installed (or installed at a different location) by your dealer.

CAUTION: This display (PDS5001W/PDS5001U/PDS5002W/PDS5002U) is for use only with Fujitsu General Limited's option (P-50WB01, P-50CT01, P-50TT01).
Using this display with other option can cause instability resulting in possible injury.

FACTORY SETTINGS

This display can store the latest four types of signals for RGB adjustment value. The fifth input signal will replace the adjustment value of the first input signal.

To do this, select a desired signal and follow the instructions in “Adjusting Screen Position and Size” on P. E-26–E-27 to adjust the parameters. When you finish, the settings will be automatically stored. Thus, when the display receives that signal, pictures will be displayed in accordance with the settings you most recently selected.

Main corresponding signals (RGB mode)

Display (dots x lines)	Horizontal frequency (kHz)	Vertical frequency (Hz)	Signal
852 x 480	31.72	59.97	
640 x 480	31.47	59.94	VGA
640 x 480	37.86	72.81	VGA 72 Hz
640 x 480	37.50	75.00	VGA 75 Hz
640 x 480	43.27	85.01	VGA 85 Hz
720 x 400	31.47	70.09	400 lines
800 x 600	37.88	60.32	SVGA 60 Hz
800 x 600	48.08	72.19	SVGA 72 Hz
800 x 600	46.88	75.00	SVGA 75 Hz
800 x 600	53.67	85.06	SVGA 85 Hz
1024 x 768	48.36	60.00	XGA 60 Hz
1024 x 768	56.48	70.07	XGA 70 Hz
1024 x 768	60.02	75.03	XGA 75 Hz
1280 x 1024	63.98	60.02	SXGA 60 Hz
1280 x 1024	79.98	75.03	SXGA 75 Hz
1600 x 1200	75.00	60.00	UXGA 60 Hz
640 x 480	35.00	66.67	MAC 13RGB
848 x 480	31.02	60.00	
720 x 485	15.73	59.94	60 fields
720 x 575	15.63	50.00	50 fields
640 x 400	31.50	70.15	NEC 31 kHz

* With some input signals, “Out of range” may appear even when the horizontal and vertical frequencies are within their permissible ranges. Make sure that the vertical frequency of the input signal is 85 Hz or less for SVGA, 75 Hz or less for XVGA/ SXGA , 60 Hz or less for UXGA.

In the Comp.video and Video/S-video modes, the display has been factory-set as follows for different input signals:

Main corresponding signals (Comp.video mode)

Horizontal frequency (kHz)	Vertical frequency (Hz)	Signal
15.73	59.94	SDTV 480I
15.63	50.00	SDTV 576I
31.47	59.94	SDTV 480P
31.25	50.00	SDTV 576P
45.00	60.00	HDTV 720P
37.50	50.00	HDTV 720P
33.75	60.00	HDTV 1080I
28.13	50.00	HDTV 1080I

Main corresponding signals (Video, S-video mode)

Horizontal frequency (kHz)	Vertical frequency (Hz)	Signal
15.73	59.94	NTSC
15.63	50.00	PAL
15.63	50.00	SECAM
15.63	59.52	PAL60
15.63	50.00	N-PAL
15.73	59.95	M-PAL
15.73	59.94	4.43NTSC

- With the 1280 x 1024 and 1600 x 1200 modes, pictures of reduced size are displayed on the screen, using size reduction and interpolation. Note also that on-screen information is also displayed in reduced size.
- “Out of range” appears if the display receives a signal whose characteristic does not fall within the display’s permissible range.
- You can check input signals through “Information” on the FEATURES Menu screen. (See P. E-35.)
- All terms (i.e., company and product names) used in this document are trademarks or registered trademarks.
- Specifications and external appearance may be change for the sake of improvement.
- Plasmavision" is a worldwide trademark of Fujitsu General Limited and is a registered trademark in Japan, the U.S.A. and other countries or areas.

SPECIFICATION

Model	PDS5001W/PDS5001U/PDS5002W/PDS5002U			
Screen size	50" wide screen: 110.6 cm (W) x 62.2 cm (H) (126.9 cm diagonal) 43.5 inch (W) x 24.5 inch (H) (50.0 inch diagonal)			
Aspect ratio	16:9 (wide)			
Weight	45.0 kg / 99.2 lbs			
Outer dimensions	121.2 (W) x 72.6 (H) x 9.8 (D) cm / 47.7 (W) x 28.6 (H) x 3.9 (D) inch			
Power supply	220–240 VAC 50/60 Hz (W type) / 120 VAC 50/60 Hz (U type)			
Current rating	2.7A (W type) / 5.5 A (U type)			
Screen dimensions	110.6 (W) x 62.2 (H) cm / 43.5 (W) x 24.5 (H) inch			
Number of pixels	1366 (H) x 768 (V)			
Display modes	Video, S-video input: Normal/Auto/Wide1/Wide2/Zoom1/Zoom2			
	Component video input: Normal/Wide1/Wide2/Zoom1/Zoom2			
	RGB: Normal/Wide/Zoom			
Colors	16.77 million (for each of 256 RGB gradations)			
External equipment terminals				
Video input terminals	Video input	1 BNC terminal	1 Vp-p/75 Ω	
	S-video input	1 S terminal	Y:	1 Vp-p/75 Ω
			C:	0.286 Vp-p/75 Ω
	Component video input (color difference input)	3 BNC terminals	Y:	1 Vp-p/75 Ω
			P_B/B-Y:	0.7 Vp-p/75 Ω
			P_R/R-Y:	0.7 Vp-p/75 Ω
Applicable systems	NTSC/PAL/SECAM/PAL60/N-PAL/M-PAL/4.43NTSC			
PC input terminal	RGB1 input terminal	1 DVI-D terminal		
	RGB2 input terminal	mD-sub, 3 rows, 15-pin Picture signal: 0.7 Vp-p/75 Ω Synchronization signal:TTL level		
	RGB3 input terminal	5 BNC terminals	R:0.7 Vp-p/75 Ω G:0.7 Vp-p/75 Ω B:0.7 Vp-p/75 Ω H:TTL/ANALOG (75 Ω) V:TTL/ANALOG (75 Ω)	
Control terminal	1 RS-232C connector (D-sub 9-pin)			
Operating conditions	Temperature: 0 to 40 °C / 32 to 104 °F Humidity: 20 to 80 %			
Accessories	1 remote control, 2AA batteries, 1 instruction manual, 1 power cable, 2 ferrite cores			

Regulation --- PDS5001W/PDS5002W

- EMC:FCC Part 15 Class A, ICES-003 Class A (PDS5001W)
  EMC:FCC Part 15 Class B, ICES-003 Class B (PDS5002W)
- CE Safety: EN60065
  EMC: EN55022 1998, Class A(PDS5001W),Class B(PDS5002W)
  EN61000-3-2 1995
  EN61000-3-3 1995
  EN55024 1998
  EN61000-4-2 1995
  EN61000-4-3 1996
  EN61000-4-4 1995
  EN61000-4-5 1995
  EN61000-4-6 1996
  EN61000-4-8 1993
  EN61000-4-11 1994
- AS Safety: IEC60065
  EMC: AS/NZS 3548

Regulation --- PDS5001U/PDS5002U

- UL, CSA Safety: UL6500,C-UL
  EMC:FCC Part 15 Class A, ICES-003 Class A (PDS5001U)
  EMC:FCC Part 15 Class B, ICES-003 Class B (PDS5002U)

CLEANING AND MAINTENANCE

Precautions

Be sure to remove the power plug from the receptacle before cleaning the display.
Be sure not to clean the display using a cloth dampened with volatile solvents, such as benzene or thinner. Such solvents can harm the display's cabinet, the filter at the screen front, and the remote control. They can also cause paint to come off these sections.

Cleaning the Screen

Clean the screen gently with a soft cloth.
The screen surface is fragile. Never attempt to clean it with a hard material, press on it forcefully, or tap it.

Cleaning the Cabinet and Remote Control

Use a soft cloth for cleaning.
If the cabinet or remote control is heavily stained, soak a soft cloth in a mixture of water and detergent and squeeze it dry before wiping off the stains. Use a soft, dry cloth for final cleaning.

Cleaning the ventilation grille

Remove dust from the ventilation grille in the rear of the main unit periodically with a vacuum cleaner as the accumulated dust can increase the internal temperature of the main unit causing machine failure or fire hazard.

HANDY TIPS

In the event of problems with the display, check the following explanations before contacting your dealer for servicing.

Problem	Action
• Power does not turn ON.	• Check whether the power plug is securely inserted into the receptacle.
• No pictures are displayed.	• Check cables for disconnection. • Check whether the power for all input equipment is ON. • Check for connection to wrong terminals or for wrong input mode. • Check whether the input mode display is colored pink.Special setup may have been made. Return to original setup or initialize the User adjustment value.
• Remote control does not function properly.	• Check for incorrect battery orientation. • Check for dead batteries. • Checkfor distance from the display. • Check whether you are pointing the remote control transmitter properly at the display's receiver. • Check for any obstacle between the remote control and the display.
• The display makes a snapping sound.	• This sound is produced when the cabinet expands or contracts due to variations in temperature. This sound does not indicate that the display has a problem.
• The display makes a buzzing sound.	• The display has fans to maintain the temperature of internal components at a constant level. This sound is produced by the fan as it rotates.
• There are spots on the screen.	• Check whether your AV equipment is affected by interference from automobiles, trains, high-voltage transmission lines, neon signs or other potential sources of interference.
• Degraded colors/tints	• Check whether all picture adjustments have been properly made. (See "Adjusting Pictures" on P. E-24–E-25.)
• Improper screen position/size	• Check whether screen position and size have been properly adjusted. (See "Adjusting Screen Position and Size" on P. E-26–E-27.)
• If "Invalid operation" appears.	• Check whether you have selected "Input Priority".(See "Features" on P. E-33.)
• If "Out of range" appears, the display is receiving a signal whose picture or signal cannot be reproduced by the display.	• Input proper signals. Make sure that the vertical frequency of the input signal is 85 Hz or less for SVGA, 75 Hz or less for XVGA / SXGA , 60 Hz or less for UXGA.
• The screen turns to black and white.	• Input proper signals. Make sure that the vertical frequency of the input signal is 85 Hz or less for SVGA, 75 Hz or less for XVGA / SXGA , 60 Hz or less for UXGA.
• If "Error message Condition 1" appears, the fan is defective.	• Remove the power plug from the receptacle, and contact your dealer for repairs.
• If "Error message Condition 2" appears, the display's internal components are extremely hot.	• Remove the power plug from the receptacle. (You can turn the power back ON again when the components have cooled sufficiently.) If the message appears again when you turn the power back on, remove the power plug from the receptacle, and contact your dealer for a repairs.
• If "Change refresh rate to 60Hz"appears,	• The picture may get blurred with vertical frequency of other than 48.3-51.8 or 58.4-61.4 (Hz). Change the setting of your PC,etc.
• If the power indicator lamp flashes red.	• Remove the power plug from the receptacle, and inform your dealer about how the lamp flashed. As explained below, the power indicator lamp flashes differently depending on the type of problem: – Flashes repeatedly: Improper supply voltage level – Flashes once: Malfunction by the fan – Flashes twice: Excessive temperature – Flashes three times or more: Other problems